

REPORT

**Former American Cyanamid Site
Impoundments 1 and 2
Characterization Program
Summary Report**

**Wyeth Holdings Corporation
Bound Brook, New Jersey**

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INTRODUCTION

In accordance with the March 10, 2010 Scope of Work (Appendix A), the April 16, 2010 Sampling and Analysis Plan, and the April 9, 2010 Task Authorization, this memo presents the methodology and results of sampling performed to additionally characterize and evaluate Impoundments 1 & 2 material in anticipation of the performance of a Focused Feasibility Study (FFS) for the two impoundments.

HISTORICAL BACKGROUND INFORMATION

These impoundments were originally included in the Comprehensive Site-wide Feasibility Study submitted to USEPA in May 2007, but have been identified as requiring further evaluation to identify the appropriate remedy through the performance of a FFS.

The FFS will include the evaluation of each remedial alternative with respect to technical feasibility, cost, schedule, and potential for impact to the surrounding community and the environment. However, existing characterization data for the impoundments was limited with respect to contaminant concentrations and their potential to impact the remedy selection process. Notably, the potential for these compounds to volatilize during remedy implementation will need to be considered, as potential air emissions will impact the technical feasibility of the alternatives and the ability to comply with Applicable or Relevant and Appropriate Requirements (ARARs) such as the New Jersey Department of Environmental Protection's air permitting requirements. A limited data set (12 samples for 40,000 CY), elevated detection limits masking potential risk drivers in historical data, and a lack of data regarding compounds such as 1,3-butadiene and benzyl chloride (which have been detected within air samples from other impoundment material) has the potential to significantly impact risk evaluations related to each potential remedy and the ability to obtain an air permit for the selected remedy.

The agencies' decision to separate Impoundments 1 and 2 from the Comprehensive Site-wide Feasibility Study provided the opportunity to collect the data necessary to better evaluate the feasibility and constructability of the proposed remedial alternatives. Additionally, this data will provide the basis for the development of the work plan for additional studies in support of the FFS.

REVIEW OF PROGRAM DATA QUALITY OBJECTIVES (DQOs)

The purpose of the characterization sampling was as follows:

1. To generate a statistically-valid database of samples from Impoundments 1 and 2 that allows for more thorough characterization of impoundment material and identification of potential COCs, including:
 - a. Compounds that may be present at relatively low concentrations and have been masked by dilution effects during previous sampling events, and
 - b. Compounds that may result from degradation of previously-identified COCs or of compounds likely to be present based on the nature and source of the impoundment material.
2. To compare chemical composition and physical characteristics of the HC and VR materials to understand whether differences between the two materials include differences in chemical composition or only in physical properties, and whether the differences in physical properties are related to the physical setting. Differences in the layers may require application of different remedial alternatives, or adjustment in the implementation of these remedial alternatives.
3. To perform an initial characterization of potential air-phase COCs from both impoundment materials and the existing water cap to identify the potential presence of:
 - a. COCs that may impact air permitting and risk evaluation considerations during the screening of remedial alternatives;
 - b. Odorous COCs that may impact implementability of remedial alternatives due to the potential for offsite odor impacts; and
 - c. Hazardous or toxic COCs that may pose significant risks to on-site remediation workers that may handle impoundment waste while implementing the remedy.

4. To evaluate chemical composition, pH, and buffering capacity of the water cap currently present on the impoundments in anticipation of onsite treatment and offsite disposal of water from the cap as part of the selected remedial alternative.

SAMPLING APPROACH AND METHODOLOGY

Sampling of impoundment sludge was performed from April 22 to May 7, 2010 in accordance with the Work Plan dated April 16, 2010. Impoundment material was collected for sampling and testing by mobilizing a pontoon-mounted hammer drill rig onto the water cap of each impoundment. Samples were collected by pushing a split spoon with an acetate sleeve into the impoundment material through the water cap. Following removal, the acetate sleeve was capped for transportation to the shore for sampling and off-site analysis. Figure 1 presents the impoundment sampling locations. A photograph and video log of sampling activities is included as Appendix B.

In addition to the analytical samples collected, additional impoundment material was collected in 5-gallon buckets for completion of headspace air testing; water was also collected from each of the impoundment water caps. Sampling of the headspace air was performed by placing 500 grams of impoundment material or water into a 1-gallon unused paint can; the can was then shaken for 30 minutes using a paint mixer. Prior to testing, paint cans were fitted with tubing through which the headspace air was drawn during testing. Whole-air samples were collected via Summa canister; additional parameters were evaluated by passing headspace air through various treated media. Photographs and video of the air sampling are included in Appendix B.

PHYSICAL CHARACTERIZATION

IMPOUNDMENT 1

Based on field observations, Impoundment 1 material can be characterized as consisting of 5 general categories:

Viscous-Rubbery (VR) Material

This material was black and tar-like, and was characterized by its cohesiveness and lack of grain. This material also exhibited an oily sheen; in some instances, the surface appeared glass-like. This material was very difficult to handle due to its cohesion and tackiness; its consistency varied with temperature. Photographs 21 and 22 and video 'Imp 1-VR 043010.avi' are representative of Impoundment 1 VR material.

Hard-Crumby (HC) Material

The HC material was black, often with an oily sheen, and resembled bits of broken asphalt. It was not cohesive, and could be broken into small pieces by hand easily. Photograph 18 is representative of Impoundment 1 HC material.

The following secondary types of material were also encountered:

Sand/Silt-Like Material

This material was brown, fine-grained, and non-cohesive. This material was generally located throughout the middle to lower portion of the impoundment.

Coal Aggregate (CA)

The CA material was grey and fine-grained. While this material was reported to have been placed on the surface of the existing impoundment materials in an attempt to construct a stable surface, it appears to have shifted deeper into the impoundment over time. Photographs 19 and 20 show CA material.

Clay-Like Material

Clay-like material was generally a grey color similar to the coal aggregate. It was cohesive and fine-grained. It was generally located in the upper portion of the impoundment material.

In addition to these primary material types, a very fine-grained white substance was also encountered sporadically in the impoundment; this substance resembled spent lime encountered in other areas of the site (such as Impoundment 13). In one sample location, a yellow oily liquid was also identified; this liquid is further discussed in chemical characterization of liquids section below. The sampling methodology was designed primarily to allow identification of different material types and collection of samples from discreet layers. This methodology did not necessarily lend itself to identification of the bottom of the impoundments, primarily due to the care that was needed to prevent puncture of the clay bottom. However, where refusal was encountered, it is noted in Table 1. The pH of the impoundment material ranged from 0.56 to 12.83 s.u.; it should be noted that pH above 5 was noted in only two samples, and may be related to the presence of coal aggregate, which may have a pH comparable to that of coal ash (typically 10 – 12 s.u.).

Three-dimensional cross sections of Impoundment 1 are presented from the northeast, northwest, southeast, and southwest in Figures 2 through 5; animations of the three-dimensional cross sections are provided as Appendix C. In addition, two-dimensional cross sections are presented in Figures 6 and 7. A summary of the field notes from the impoundment sampling, including material descriptions and photoionization detector (PID) readings, is presented in Table 1.

IMPOUNDMENT 2

Material in Impoundment 2 can be characterized into two primary categories:

Viscous-Rubbery (VR) Material

As with the VR material identified in Impoundment 1, this material was black and tar-like, and was characterized by its cohesiveness and lack of grain. This material also exhibited an oily sheen; in some instances, the surface appeared glass-like. Photograph 5 is representative of Impoundment 2 VR material.

Hard-Crumby (HC) Material

Similar to the HC material in Impoundment 1, the HC material was black, often with an oily sheen, and resembled bits of broken asphalt. It was not cohesive, and could be broken into small pieces by hand easily. Photograph 9 is representative of Impoundment 2 HC material.

While no lime-like material was encountered in the samples collected from Impoundment 2, on one occasion when push poles were used to move the pontoon boat around the impoundment, a white substance rose to the surface (Photographs 6 and 7). This white substance effervesced on the surface of the water cap; as in Impoundment 1, this is suspected to be spent lime. As described above, the sampling methodology did not necessarily lend itself to identification of the bottom of the impoundments; however, where refusal was encountered, it is noted in Table 2. The pH of the impoundment material ranged from 0.3 to 2.33 s.u.

Three-dimensional cross sections of Impoundment 2 are presented from the northeast, northwest, southeast, and southwest in Figures 8 through 11. Two-dimensional cross sections are presented in Figures 12 and 13. A summary of the field notes from the impoundment sampling, including material descriptions and PID readings, is presented in Table 2.

CHEMICAL CHARACTERIZATION – SOLID PHASE

OVERVIEW OF RESULTS/STATISTICAL SUMMARY

Analytical data for the impoundment materials is presented as follows:

	Table	Figure
Impoundment 1		
VOCs	Table 3	Figure 14
SVOCs	Table 4	Figure 15
Metals	Table 5	Figure 16
General Chemistry	Table 6	Figure 17
Aldehydes and Explosives	Table 7	(none: minimal detections)
PCB Aroclors	Table 8	(none: no detections)
PCB Congeners	Table 9	(none: minimal detections)
Alcohols	Table 10	(none: minimal detections)
Impoundment 2		
VOCs	Table 3	Figure 18
SVOCs	Table 4	Figure 19
Metals	Table 5	Figure 20
General Chemistry	Table 6	Figure 21
Aldehydes and Explosives	Table 7	(none: minimal detections)
PCB Aroclors	Table 8	(none: no detections)
PCB Congeners	Table 9	(none: no detections)
Alcohols	Table 10	(none: minimal detections)

A statistical analysis of the data collected during this program is presented for Impoundment 1 in Table 11 and for Impoundment 2 in Table 12. This analysis has been performed independent of data collected during historical sampling events for the following reasons:

- This program was designed specifically to characterize the impoundment as a whole; previous sampling events were not. Historical samples were generally collected from non-specific sampling locations, and were biased to more-accessible areas near the berms. Sample locations for this program were designed to provide a balanced representation of the impoundment as a whole; incorporation of historical data would bias the statistical analysis to these areas.
- The objective of sampling performed as part of previous programs was generally to support treatability testing or other activities, and may have been biased to account for characteristics relevant to those activities (e.g. collection of samples with high PID readings to establish ‘worst-case’ material).
- Many of the historical samples for the two impoundments were collected more than 20 years ago. Since then, analytical technology has advanced significantly, allowing for evaluation of compounds at lower detection limits. Inclusion of historical data may artificially skew statistical evaluation due to elevated detection limits. In addition, elevated detection limits present in historical samples may have effectively masked the presence of some compounds, again artificially skewing the evaluation.

Statistical analysis of the data collected provides insight into the nature of impoundment material and the degree to which material varies throughout each impoundment, and was performed using USEPA’s ProUCL statistical software, version 4.00.05. Tables 11 and 12 provide the number and range of detections of each detected compound, as well as the mean, distribution type, standard deviation, coefficient of variation, and 95%

Upper Confidence Limit (UCL) of each. Based on this statistical evaluation, the following general observations can be made:

- Data distribution was evaluated for each detected compound. In Impoundment 1, a Gamma distribution was identified for more than half of the detected compounds. For the balance of the compounds, the Chebyshev method was used to calculate statistical parameters; use of this method indicates a high degree of variability in the data set. In Impoundment 2, an appropriate distribution was not identified for most compounds; the Chebyshev method was used to calculate statistical parameters for most of the identified compounds.
- Skewness was also evaluated for each compound. For data from both impoundments, the skewness values were usually positive (> 0). A positive skewness value indicates that the bulk of the individual data points are less than the mean.
- The coefficient of variation is an indication of the variance of a body of data. In general, a coefficient of variation greater than 1 indicates a high degree of variability. In both impoundments, most compounds were found to have a coefficient of variation greater than 1.

COMPARISON TO HISTORICAL DATA

Tables 13 (Impoundment 1) and 14 (Impoundment 2) present a comparison of historically-detected compounds¹ to those identified during this program. A summary of this comparison is presented below:

Impoundment 1

The following compounds were newly-identified in Impoundment 1 during this program:

VOCs	1,3,5-Trimethylbenzene, Cyclohexane, Isopropylbenzene, and Methylcyclohexane.
SVOCs	1,1'-Biphenyl, 1,2-Diphenylhydrazine, 2,4-Dimethylphenol, Acetophenone, Benzidine, and bis(2-Ethylhexyl)adipate.
Aldehydes	Formaldehyde.
Alcohols	Ethanol and Methanol.

Overall, there was a 107% difference between average VOC concentrations measured during this program and historical data, with higher concentrations measured historically. For SVOCs, there was a 36% difference between average concentrations measured during this program and historical data, with higher concentrations measured historically. Total metals concentrations demonstrated a 72% difference, with higher concentrations measures currently.

Impoundment 2

The following compounds were newly-identified in Impoundment 2 during this program:

VOCs	1,3,5-Trimethylbenzene, Cyclohexane, Isopropylbenzene, Methyl Acetate, and Methylcyclohexane.
SVOCs	1,1'-Biphenyl, 2,4-Dimethylphenol, Acetophenone, and bis(2-Ethylhexyl)adipate.
Aldehydes	Formaldehyde.

¹ As presented in the Remedy Appropriateness Evaluation, January 2005

Alcohols Ethanol and Methanol.

Overall, there was a 65% difference between average VOC concentrations measured during this program and historical data, with higher concentrations measured during this program. For SVOCs, there was a 6% difference between average concentrations measured during this program and historical data, with higher concentrations measured historically. Total metals concentrations demonstrated a 39% difference, with higher concentrations measured historically.

EVALUATION OF CHARACTERIZATION BY MATERIAL TYPE

The chemical composition of different categories of impoundment material, specifically the HC and VR layers, was also evaluated. This evaluation was performed for material from Impoundment 2 only; in Impoundment 1, VR material represented a relatively small percentage of material identified and, as such, few samples were collected of this material.

For Impoundment 2, VR and HC materials were evaluated separately; Table 15 presents the comparison of the two data sets. Based on this analysis, compounds with specific gravities less than unity (as with most VOCs) have a tendency to be more prevalent in the VR material. Conversely, compounds with specific gravities greater than 1 (as with most SVOCs) have a tendency to be more prevalent in the HC material. This difference may be due to gravitational settling in the impoundment, as the VR layer is present at a shallower depth than the HC layer, and may account, at least in part, for the difference in material characteristics between the two layers. The relative concentrations of these compounds in each type of impoundment material may impact air emissions during different phases of the program (depending on the remedial technology selected). The chemical composition of each layer may also impact the nature and composition of suitable pozzolans should the selected remedy involve solidification for subsequent removal, handling, and treatment.

CHEMICAL CHARACTERIZATION – LIQUID PHASE

Prior to the start of sludge sampling, a sample was collected from the water cap of each impoundment; results of these samples are presented in the following tables:

- Table 16: VOCs
- Table 17: SVOCs
- Table 18: Metals
- Table 19: General Chemistry
- Table 20: Explosives
- Table 21: Volatile Fatty Acids

Results of the water cap sampling generally indicated the presence of compounds present in the impoundment material, with the exception of isophorone, which was detected in the water cap samples from both impoundments but is not present in the impoundment material from either impoundment. The pH of Impoundment 1 in the sample and the duplicate was 6.58 s.u. and 8.73 s.u., respectively; the pH of the Impoundment 2 water cap sample was 8 s.u.. Buffering capacity of the impoundment water cap samples was not evaluated, as the sample pH was close to neutral.

In addition to the water cap samples collected, a sample was collected of a yellow oily liquid identified in Impoundment 1 (photograph 24). This liquid was identified suspended within the impoundment material at two intervals, from 3 to 4 feet below the top of the impoundment material, and again from 6 to 7 feet. The liquid was sampled; results of the sampling are presented in the following tables:

- Table 22: Impoundment 1 VOC Oily Liquid Data
- Table 23: Impoundment 1 SVOC Oily Liquid Data
- Table 24: Impoundment 1 Metals Oily Liquid Data

■ Table 25: Impoundment 1 General Chemistry Oily Liquid Data

Due to the limited volume of liquid recovered, analysis was performed for a limited suite of compounds. Based on the results of this analysis, the liquid is approximately 5.4 to 6.7% benzene, 1.5 to 1.7% toluene, and 1.3 to 1.8% naphthalene.

CHEMICAL CHARACTERIZATION – AIR PHASE

SUMMARY OF DETECTED COMPOUNDS/COMPARISON TO REGULATED COMPOUNDS

Tables 26 and 27 present the results of headspace air samples collected from Impoundments 1 and 2 for VOCs and other compounds, respectively. Table 28 summarizes detected compounds and compares these detected compounds to regulatory lists and odor thresholds. The following compounds were identified in the air phase. Compounds also identified during testing of the water cap are indicated with an asterisk. Compounds regulated as Hazardous Air Pollutants (HAPs)² or New Jersey Toxic Compounds (TXS) are presented in bold.

<i>Impoundment 1</i>	VOCs	Acetone* Benzene* Carbon Disulfide* Chloroethane Chloromethane Cyclohexane 1,2-Dichlorobenzene (o-Dichlorobenzene)* 1,4-Dichlorobenzene (p-Dichlorobenzene)* Ethylbenzene* Heptane Hexane 1,2,4-Trimethylbenzene* 1,3,5-Trimethylbenzene* Toluene* Xylene (all isomers)* Other Compounds Crotonaldehyde Butyraldehyde Ethanol* ³ Formaldehyde* Acetaldehyde Valeraldehyde Hydrogen Sulfide
<i>Impoundment 2</i>	VOCs	Acetone Benzene* Carbon Disulfide* Chloroethane Chloromethane Cyclohexane 1,2-Dichlorobenzene (o-Dichlorobenzene)* 1,4-Dichlorobenzene (p-Dichlorobenzene)*²

² The list of HAP compounds identified by NJDEP is also the list of compounds for which risk evaluation is required as part of the air permitting process.

³ Identified during testing of water cap only

	Ethylbenzene*
	4-Ethyltoluene ²
	Heptane*
	Hexane
	Methyl Ethyl Ketone
	1,2,4-Trimethylbenzene*
	1,3,5-Trimethylbenzene*
	Toluene*
Other Compounds	Xylene (all isomers)*
	Crotonaldehyde
	Isovaleraldehyde*
	Ethanol
	Formaldehyde*
	Acetaldehyde
	Sulfuric Acid
	Hydrogen Sulfide

These compounds are comparable with those identified during remedial programs for other impoundments at the site, and with volatile compounds identified in the sludge. Measured concentrations of VOCs from the HC material were generally higher than those from VR material, despite the higher concentration of VOCs generally present in the VR material in the sludge. This observation, however, is consistent with the observation made during previous programs that maximum emissions occurred during the processing of material that is less cohesive; this may be due to the relative surface area to which the volatile compounds are exposed in the varying material types.

It should be noted that two compounds which were risk drivers for other remedial programs and their corresponding air permits, 1,3-Butadiene and Chloroform, were absent from the detected compounds in these two impoundments.

COMPARISON TO ODOR THRESHOLDS

Measured headspace concentrations were also compared to odor thresholds. While the concentrations measured in the headspace are not representative of anticipated concentrations in ambient air during remedial activities, this comparison serves as a screening tool to identify compounds that may cause odor concerns.

Compounds for which the high odor threshold was exceeded, and the degree to which the threshold was exceeded, is presented in the table below:

Compound	Factor of exceedance of the High Odor Threshold	
	Impoundment 1	Impoundment 2
Acetone	BT	1.5x
Benzene	95x	90x
Carbon Disulfide	120x	188x
Chloroethane	1.7x	3.9x
Chloromethane	2.6x	31x
Ethylbenzene	14x	9.1x
4-Ethyltoluene	69x	7.9x
1,2,4-Trimethylbenzene	5.9x	3.9x
1,3,5-Trimethylbenzene	4.9x	2.8x
Toluene	22x	20x
Xylene (Total)	92x	53x
Crotonaldehyde	BT	1.5x
Butyraldehyde	2.9x	BT
Isovaleraldehyde	5,380x	3,240x
Valeraldehyde	49x	BT
Hydrogen Sulfide	56x	506x

BT: Below high odor threshold

Bold type indicates HAP/TXS compounds

SUMMARY

The Impoundment 1 and 2 Characterization Program was designed to provide additional information on the physical of the impoundment material, as well as the chemical nature of the impoundment material, the water caps, and potential air impacts. This information will support future programs, including an anticipated FFS. This section summarizes the key observations made during the program:

- Chemically, the two impoundments are more similar than indicated by historical data. Whereas historical data indicated VOC concentrations in Impoundment 1 were approximately one order of magnitude higher than those in Impoundment 2, the larger data set collected as part of this program indicates that, chemically, the impoundments are comparable.
- Physically, the two impoundments are different. While Impoundment 2 has two primary layers, with some mixture between the two, Impoundment 1 varies widely. In addition to the HC and VR layers present in both impoundments, Impoundment 1 also contains coal aggregate material, clay-like material, and sand/silt-like material. The location and depths of these material types varies throughout the impoundment.
- Chemically, the HC and VR layers are different. VOC concentrations are higher in the VR material, while SVOCs are more prevalent in the HC material. In the air phase, higher VOC concentrations were measured from the HC material than from the VR material.
- Material characteristics, specifically with respect to the VR material, may make full-scale material handling very difficult. The extreme pH of the impoundment material (mostly very acidic, with some highly alkaline material) and the cohesion and tackiness of the VR material have the potential to impact the implementability of some remedial alternatives.

- As anticipated, high concentrations of VOCs were identified in the air phase. Additionally, several aldehydes, sulfuric acid, and hydrogen sulfide were present at high concentrations. However, several compounds with the potential to drive the exposure risk based on observations made during previous remedial programs at the site, such as 1,3-Butadiene and Chloroform, were not identified in the air phase. In addition, headspace concentrations of several compounds were in excess of odor thresholds. In addition to compounds evaluated during this program, there is potential for other compounds (such as sulfur dioxide or tetrahydrothiophenes) not yet evaluated be further assessed for their risk or nuisance to on-site remediation workers and the surrounding community.

Tables

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Table 1
Impoundment 1-Material Description

Sample Location	Date	Northing	Easting	Water cap depth (ft)	Sample Intervals (from top of material)	Material description				PID Readings (ppm) near material surface			
						0-3 feet	3 - 5 feet	5 - 7 feet	7 - 9 feet	0-3 feet	3 - 5 feet	5 - 7 feet	7 - 9 feet
IMP1-A	4/30/2010	626878.49	2032453	3.0	2' - 3' 3' - 4'	Grey and clay-like	Black and crumbly with grey/clay-like material throughout	Grey-black and crumbly		0	> 9999	238	
IMP1-B / IMP1-P	5/5/2010	626883.96	2032606.3	4.4	2' - 3' 4' - 5'	Black and crumbly with some brown sand-like material throughout	Black/crumbly with some brown sand-like material throughout; some white limelike material	Black and crumbly; refusal at 6.8 feet		740 - 3360	200 - 7100	3562	
IMP1-C	4/30/2010	626796.76	2032476.8	6.0	1' - 2'	Hard and gravel-like				5.2 - 699	100		
IMP1-D	5/5/2010	626832.68	2031547.6	3.0	2' - 3' 4' - 5' (cont)	Black, hard, crumbly, and gravel-like	Hard and gravel-like			0	663		
IMP1-E/ IMP 1-Q	5/4/2010	626921.04	2032660.4	4.2	2' - 3' 4' - 5'	Black and granular with white sand-sized particles throughout	3': Sand-like 5': Hard, black, crumbly	5': sticky, black, and tar-like 6.5': hard and crumbly		0	143	841	1976
IMP1-F	5/4/2010	626949.57	2032648	4.0	2' - 3' 6' - 7'	Sand/Watery mixture	3' - 4.5': Sand/water mixture 4.5' - 5': Hard/crumbly	Hard and crumbly		243	1982	5.6	
IMP1-G/ IMP1-R	5/3/2010	626919.73	2032537.3	2.7	2' - 3' 5' - 6'	Hard, crumbly, gravel-like	Black, looks like a mixture of sand and gravel	Black, sand- and gravel-like mixture	Sandy with some clay.	0.7 - 4.3	5.2 - 12.8	6.1 - 11.7	112
IMP1-H	4/30/2010	626739.46	2032524.5	7.0	2' - 3' 7' - 8' (cont)	Hard and crumbly	Black, hard, and crumbly	5': Black and tar-like 7': Hard and crumbly	Hard, crumbly	58	411	350	
IMP1-I/ IMP1-S	5/5/2010	626836.81	2032605.1	4.2	1' - 2' 3' - 4'	Black, soft, and crumbly	Black, soft, and crumbly	Black, soft, and crumbly		215 - 1704	330	227	29.8
IMP1-J/ IMP1-T	5/4/2010	626888.6	2032662.8	4.2	1' - 2' (cont) 5' - 6'	Gritty and sand-like, somewhat cohesive but not sticky	Hard and crumbly	Black, hard, and crumbly		138	1374		
IMP1-K	5/6/2010	626672.19	2032569	4.6	1' - 2' 6' - 7'	Black, hard, and crumbly; some brown sand-like	Fine grains like sand; at 5', material is black, hard, crumbly, and gravel-sized	Black, not cohesive	Black, not cohesive	251 - 297	203	361	481
IMP1-L	5/7/2010	626719.6	2032639	6	2' - 3' (cont) 4' - 5' 6' - 7'	Black, sticky, cohesive	3': Sticky and black 5': Hard and crumbly	Hard, rubbery, and crumbly		986	363	180	
IMP1-M	5/5/2010	626774.56	2032584.6	3	1' - 2' 7' - 8'	Gravel-like; hard but loosely packed	(no significant recovery)	Hard, Black, and crumbly	Hard, Black, and crumbly; grey clay-like material near bottom (8.3')	10.7	372	457	482
IMP1-N	5/4/2010	626829.07	2032675.9	4.2	1' - 2' (cont) 5' - 6'	Black, somewhat cohesive, not sticky	Black and crumbly with sand and gravel particles throughout	Mixture of black and crumbly with more sticky material	Hard, crumbly	1080	680	220	12.9
IMP1-O	5/6/2010	626756.77	2032719	5.2	2' - 3' 7' - 8'	Black, not crumbly, cohesive, rubbery	Black, not crumbly, cohesive, rubbery	Hard, crumbly	Hard, crumbly	147	401	408	

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Table 2
Impoundment 2-Material Description

Sample Location	Date	Northing	Easting	Water cap depth (ft)	Sample Intervals (from top of material)	Material description				PID Readings (ppm) near material surface			
						0-3 feet	3 - 5 feet	5 - 7 feet	7 - 9 feet	0-3 feet	3 - 5 feet	5 - 7 feet	7 - 9 feet
IMP2-A	4/22/2010	626764.9	2032191.9	4.3	3' - 4' 8' - 9'	Hard and crumbly with some tar-like material throughout	3': Tar-like 5': Crumbly	Hard and crumbly	Hard and crumbly	168	117	1374	
IMP2-B	4/22/2010	626818.5	2032251.7	4.3	1' - 2' 4' - 5'		3': Tar-like 5': Crumbly		Black; "Chili"-like consistency	362	363	608	130
IMP2-C	4/26/2010	626677.02	2032200.1	4.3	1' - 2' 6' - 7'	Black, sticky, tar-like	3': Tar-like 5': Hard and crumbly			157	516		
IMP2-D	4/22/2010	626734.47	2032253	4.3	2' - 3' 5' - 6'	Sticky but crumbly and loose	Hard and crumbly	Hard, crumbly, and black	Extremely Hard at 9.0'. Almost clay-like texture		428	1260	1274
IMP2-E	4/21/2010	626773.82	2032301.5	4.2	3' - 4' 7' - 8'		3': Tar-like 5': Crumbly			23.6 - 79.6	216.3		
IMP2-F	4/20/10; 4/21/10	626831.57	2032358.4	4.1	1' - 2' 5' - 6' 7' - 8'	Black, loose, cohesive	3': Tar-like 5': Crumbly			23 - 1328	266.8 - 718	1344	
IMP2-G	4/26/2010	626600.05	2032222.6	4.3	3' - 4' 6' - 7'		3': Tar-like 5': Hard and crumbly	5': Hard and Crumbly 6.6': Hard and compact		333	1178	799	
IMP2-H	4/27/2010	626653.49	2032276.9	4.5	3' - 4' 5' - 6' (cont)	Black, sticky, tar-like	3': Tar-like 5': Hard and crumbly	Hard and crumbly	Hard and crumbly, loose	236 - 1187	207 - 1221	726	298
IMP2-I	4/23/2010	626702.08	2032333.5	4.3	2' - 3' 4' - 5'	Black, sticky, crumbly	3': Tar-like 5': Crumbly	Hard and sticky	Black, hard	330			367
IMP2-J	4/23/2010	626734.48	2032377.2	4.5	2' - 3' 8' - 9'	Black and sticky	Black and sticky	Black and clumpy	Hard and crumbly			37.8	618
IMP2-K	4/26/2010	626524.72	2032258.4	4.5	3' - 4' 7' - 8'	Black, sticky, tar-like	3': Tar-like 5': Crumbly	Hard and crumbly	Hard and crumbly	138	58	NA	NA
IMP2-L	4/27/2010	626586.09	2032306.6	4.4	1' - 2' (cont) 6' - 7'	Black, sticky, tar-like		Hard and crumbly	Hard and crumbly	622	1708	916	762
IMP2-M	4/29/2010	626648.97	2032364.3	4.5	2' - 3' (cont) 5' - 6'	Black, sticky, tar-like	Tar-like	Tar-like	Hard and crumbly	274	432	231	44
IMP2-N	4/23/2010	626734.48	2032377.2	4.3	1' - 2' 4' - 5'	Sticky, watery	Black	5.0': Tar-like, loose 7.0': Tar-like, firmer		199		330	
IMP2-O	4/27/2010	626624.16	2032423.3	4.5	2' - 3' (cont) 7' - 8'	Black, sticky, tar-like	3': Tar-like 5': Hard and crumbly	Hard and crumbly	Hard and crumbly	562	NA	NA	NA

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1VR0A_01_04302010	IMO1HCOA_02_04302010	IMO1CAOP_01_05052010	IMO1HC0B_02_05052010
Sample Date	4/30/2010	4/30/2010	5/5/2010	5/5/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	2,000 U	50,000 U	560,000 U	600,000 U
1,1,1-Trichloroethane	2,000 U	50,000 U	560,000 U	600,000 U
1,1,2,2-Tetrachloroethane	2,000 U	50,000 U	560,000 U	600,000 U
1,1,2-Trichloroethane	2,000 U	50,000 U	560,000 U	600,000 U
1,1-Dichloroethane	2,000 U	50,000 U	560,000 U	600,000 U
1,1-Dichloroethene	2,000 U	50,000 U	560,000 U	600,000 U
1,2,3-Trichlorobenzene	2,000 U	50,000 U	560,000 U	600,000 U
1,2,3-Trichloropropane	2,000 U	50,000 U	560,000 U	600,000 U
1,2,4-Trichlorobenzene	2,000 U	50,000 U	560,000 U	600,000 U
1,2-Dibromo-3-chloropropane	4,000 U	100,000 U	1,100,000 U	1,200,000 U
1,2-Dibromoethane	400 U	10,000 U	110,000 U	120,000 U
1,2-Dichlorobenzene	9,940	23,800 J	971,000	750,000
1,2-Dichloroethane	400 U	10,000 U	110,000 U	120,000 U
1,2-Dichloropropane	2,000 U	50,000 U	560,000 U	600,000 U
1,3,5-Trimethylbenzene	5,240	19,100 J	452,000 J	302,000 J, 39
1,3-Dichlorobenzene	153 J	50,000 U	560,000 U	600,000 U
1,3-Dichloropropene (total)	2,000 U	50,000 U	560,000 U	600,000 U
1,4-Dichlorobenzene	489 J	50,000 U	57,000 J	600,000 U
1,4-Dioxane	50,000 U	1,300,000 U	14,000,000 U	15,000,000 U
2-Butanone	4,000 U	100,000 U	1,100,000 U	1,200,000 U
2-Hexanone	2,000 U	50,000 U	560,000 U	600,000 U
2-Nitropropane	4,000 U	100,000 U	1,100,000 U	1,200,000 U, 91
4-Methyl-2-pentanone	2,000 U	50,000 U	560,000 U	600,000 U
Acetone	4,000 U	100,000 U	1,100,000 U	1,200,000 U
Acetonitrile	40,000 U	1,000,000 U	11,000,000 U	12,000,000 U, 91
Acrolein	20,000 U	500,000 U	5,600,000 U	6,000,000 U
Acrylonitrile	20,000 U	500,000 U	5,600,000 U	6,000,000 U
Aillyl chloride	2,000 U	50,000 U	560,000 U	600,000 U
Benzene	269,000	5,680,000	53,600,000	43,300,000
Bromochloromethane	2,000 U	50,000 U	560,000 U	600,000 U
Bromodichloromethane	2,000 U	50,000 U	560,000 U	600,000 U
Bromoform	2,000 U	50,000 U	560,000 U	600,000 U
Bromomethane	2,000 U	50,000 U	560,000 U	600,000 U
Carbon Disulfide	2,000 U	8,850 J	560,000 U	600,000 U
Carbon Tetrachloride	2,000 U	50,000 U	560,000 U	600,000 U
Chlorobenzene	275 J	50,000 U	560,000 U	600,000 U
Chloroethane	2,000 U	50,000 U	560,000 U	600,000 U
Chloroform	2,000 U	50,000 U	560,000 U	600,000 U
Chloromethane	2,000 U	50,000 U	560,000 U	600,000 U
Chloroprene	2,000 U	50,000 U	560,000 U	600,000 U
cis-1,2-Dichloroethene	2,000 U	50,000 U	560,000 U	600,000 U
cis-1,3-Dichloropropylene	2,000 U	50,000 U	560,000 U	600,000 U
Cyclohexane	2,000 U	50,000 U	560,000 U	600,000 U
Dibromochloromethane	2,000 U	50,000 U	560,000 U	600,000 U
Dichlorodifluoromethane	2,000 U	50,000 U	560,000 U	600,000 U, 91
Di-Isopropyl ether	2,000 U	50,000 U	560,000 U	600,000 U
Ethyl Acetate	2,000 U	50,000 U	560,000 U	600,000 U
Ethyl Acrylate	2,000 U	50,000 U	560,000 U	600,000 U
Ethyl Ether	2,000 U	50,000 U	560,000 U	600,000 U
Ethylbenzene	1,480	16,800	223,000	156,000
Freon 113	2,000 U	50,000 U	560,000 U	600,000 U, 91
Isobutyl Alcohol	2,000 U	2,000 U	190,000 U	190,000 U
Isopropylbenzene	9,940	34,700 J	535,000 J	356,000 J, 39
m,p-Xylene	439 J	188,000	2,700,000	1,820,000
Methacrylonitrile	4,000 U	100,000 U	1,100,000 U	1,200,000 U
Methyl Acetate	2,000 U	50,000 U	560,000 U	600,000 U
Methyl Cyclohexane	2,400	50,000 U	560,000 U	600,000 U
Methyl methacrylate	4,000 U	100,000 U	1,100,000 U	1,200,000 U
Methyl Ter. Butyl Ether	400 U	10,000 U	110,000 U	120,000 U
Methylene Chloride	2,000 U	50,000 U	560,000 U	600,000 U
n-Butyl Alcohol	2,000 U	2,000 U	190,000 U	190,000 U
n-Propyl Alcohol	2,000 U	2,000 U	190,000 U	190,000 U
o-Xylene	4,060	46,600	672,000	454,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM01VR0A 01_04302010 4/30/2010 SL ug/kg	IM01HCOA 02_04302010 4/30/2010 SL ug/kg	IM01CAOP 01_05052010 5/5/2010 SL ug/kg	IM01HC0B 02_05052010 5/5/2010 SL ug/kg
VOCs				
sec-Butyl Alcohol	2,000 U	2,000 U	190,000 U	190,000 U
Styrene	2,000 U	50,000 U	23,300 J	600,000 U
Tert Butyl Alcohol	10,000 U	250,000 U	2,800,000 U	3,000,000 U
Tetrachloroethene	2,000 U	50,000 U	560,000 U	600,000 U
Tetrahydrofuran	4,000 U	100,000 U	1,100,000 U	1,200,000 U
Toluene	1,440	1,220,000	13,500,000	10,200,000
trans-1,2-Dichloroethene	2,000 U	50,000 U	560,000 U	600,000 U
trans-1,3-Dichloropropene	2,000 U	50,000 U	560,000 U	600,000 U
Trichloroethene	2,000 U	50,000 U	560,000 U	600,000 U
Trichlorofluoromethane	2,000 U	50,000 U	560,000 U	600,000 U
Vinyl Acetate	4,000 U	100,000 U	1,100,000 U	1,200,000 U
Vinyl Chloride	2,000 U	50,000 U	560,000 U	600,000 U
Xylene (Total)	4,500	235,000	3,370,000	2,270,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IMO1VROC_01_04302010 4/30/2010 SL ug/kg	IMO1VR0D_01_05052010 5/5/2010 SL ug/kg	IMO1CAOQ_01_05042010 5/4/2010 SL ug/kg	IMO1HCOE_02_05042010 5/4/2010 SL ug/kg
VOCs				
1,1,2-Tetrachloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,1,1-Trichloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,1,2,2-Tetrachloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,1,2-Trichloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,1-Dichloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,1-Dichloroethene	130,000 U	16,000 U	630,000 U	1,000,000 U
1,2,3-Trichlorobenzene	130,000 U	16,000 U	630,000 U	1,000,000 U
1,2,3-Trichloropropane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,2,4-Trichlorobenzene	130,000 U	16,000 U	630,000 U	1,000,000 U
1,2-Dibromo-3-chloropropane	250,000 U	31,000 U	1,300,000 U	2,100,000 U
1,2-Dibromoethane	25,000 U	3,100 U	130,000 U	210,000 U
1,2-Dichlorobenzene	412,000	45,100	1,280,000	1,130,000
1,2-Dichloroethane	25,000 U	3,100 U	130,000 U	210,000 U
1,2-Dichloropropane	130,000 U	16,000 U	630,000 U	1,000,000 U
1,3,5-Trimethylbenzene	171,000	13,700 J, 39	494,000 J	381,000 J
1,3-Dichlorobenzene	130,000 U	975 J, 39	630,000 U	1,000,000 U
1,3-Dichloropropene (total)	130,000 U	16,000 U	630,000 U	1,000,000 U
1,4-Dichlorobenzene	23,600 J	3,820 J, 39	87,000 J	1,000,000 U
1,4-Dioxane	3,100,000 U	390,000 UJ, 91	16,000,000 U	26,000,000 U
2-Butanone	250,000 U	31,000 U	1,300,000 U	2,100,000 U
2-Hexanone	130,000 U	16,000 U	630,000 U	1,000,000 U
2-Nitropropane	250,000 U	31,000 UJ, 91	1,300,000 U	2,100,000 U
4-Methyl-2-pentanone	130,000 U	16,000 U	630,000 U	1,000,000 U
Acetone	250,000 U	31,000 U	1,300,000 U	2,100,000 U
Acetonitrile	2,500,000 U	310,000 UJ, 91	13,000,000 U	21,000,000 U
Acrolein	1,300,000 U	160,000 U	6,300,000 U	10,000,000 U
Acrylonitrile	1,300,000 U	160,000 U	6,300,000 U	10,000,000 U
Ailly chloride	130,000 U	16,000 U	630,000 U	1,000,000 U
Benzene	20,000,000	934,000	18,000,000	24,900,000
Bromochloromethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Bromodichloromethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Bromoform	130,000 U	16,000 U	630,000 U	1,000,000 U
Bromomethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Carbon Disulfide	29,200 J	16,000 U	630,000 U	1,000,000 U
Carbon Tetrachloride	130,000 U	16,000 U	630,000 U	1,000,000 U
Chlorobenzene	130,000 U	1,330 J, 39	49,400 J	1,000,000 U
Chloroethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Chloroform	130,000 U	16,000 U	630,000 U	1,000,000 U
Chloromethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Chloroprene	130,000 U	16,000 U	630,000 U	1,000,000 U
cis-1,2-Dichloroethene	130,000 U	16,000 U	630,000 U	1,000,000 U
cis-1,3-Dichloropropylene	130,000 U	16,000 U	630,000 U	1,000,000 U
Cyclohexane	130,000 U	16,000 U	630,000 U	1,000,000 U
Dibromochloromethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Dichlorodifluoromethane	130,000 U	16,000 U, 91	630,000 U	1,000,000 U
Di-Isopropyl ether	130,000 U	16,000 U	630,000 U	1,000,000 U
Ethyl Acetate	130,000 U	16,000 U	630,000 U	1,000,000 U
Ethyl Acrylate	130,000 U	16,000 U	630,000 U	1,000,000 U
Ethyl Ether	130,000 U	16,000 U	630,000 U	1,000,000 U
Ethylbenzene	72,900	5,490	119,000 J	117,000 J
Freon 113	130,000 U	16,000 U	630,000 U	1,000,000 U
Isobutyl Alcohol	100,000 U	130,000 U	200,000 U	180,000 U
Isopropylbenzene	203,000	21,700	317,000 J	279,000 J
m,p-Xylene	854,000	55,100	1,600,000	1,410,000
Methacrylonitrile	250,000 U	31,000 U	1,300,000 U	2,100,000 U
Methyl Acetate	130,000 U	16,000 U	630,000 U	1,000,000 U
Methyl Cyclohexane	130,000 U	18,000	630,000 U	1,000,000 U
Methyl methacrylate	250,000 U	31,000 U	1,300,000 U	2,100,000 U
Methyl Ter. Butyl Ether	25,000 U	3,100 U	130,000 U	210,000 U
Methylene Chloride	130,000 U	16,000 U	630,000 U	1,000,000 U
n-Butyl Alcohol	100,000 U	130,000 U	200,000 U	180,000 U
n-Propyl Alcohol	100,000 U	130,000 U	200,000 U	180,000 U
o-Xylene	244,000	16,000	417,000	391,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1VROC_01_04302010	IMO1VR0D_01_05052010	IMO1CAOQ_01_05042010	IMO1HCOE_02_05042010
Sample Date	4/30/2010	5/5/2010	5/4/2010	5/4/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	100,000 U	130,000 U	200,000 U	180,000 U
Styrene	130,000 U	16,000 U	630,000 U	1,000,000 U
Tert Butyl Alcohol	630,000 U	78,000 U	3,100,000 U	5,200,000 U
Tetrachloroethene	130,000 U	16,000 U	630,000 U	1,000,000 U
Tetrahydrofuran	250,000 U	31,000 U	1,300,000 U	2,100,000 U
Toluene	4,370,000	220,000	5,440,000	6,280,000
trans-1,2-Dichloroethene	130,000 U	16,000 U	630,000 U	1,000,000 U
trans-1,3-Dichloropropene	130,000 U	16,000 U	630,000 U	1,000,000 U
Trichloroethene	130,000 U	16,000 U	630,000 U	1,000,000 U
Trichlorofluoromethane	130,000 U	16,000 U	630,000 U	1,000,000 U
Vinyl Acetate	250,000 U	31,000 U	1,300,000 U	2,100,000 U
Vinyl Chloride	130,000 U	16,000 U	630,000 U	1,000,000 U
Xylene (Total)	1,100,000	71,100	2,020,000	1,800,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

39=The reported concentration is

quantitative qualified because the

concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IMO1VR0F 01_05042010 5/4/2010 SL ug/kg	IMO1HC0F 02_05042010 5/4/2010 SL ug/kg	IMO1CA0R 01_05032010 5/3/2010 SL ug/kg	IMO1DUP0 01_05032010 5/3/2010 SL ug/kg
VOCs				
1,1,2-Tetrachloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,1,1-Trichloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,1,2,2-Tetrachloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,1,2-Trichloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,1-Dichloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,1-Dichloroethene	21,000 U	1,500,000 U	2,700 U	6,500 U
1,2,3-Trichlorobenzene	21,000 U	1,500,000 U	2,700 U	6,500 U
1,2,3-Trichloropropane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,2,4-Trichlorobenzene	21,000 U	1,500,000 U	2,700 U	6,500 U
1,2-Dibromo-3-chloropropane	42,000 U	3,100,000 U	5,300 U	13,000 U
1,2-Dibromoethane	4,200 U	310,000 U	530 U	1,300 U
1,2-Dichlorobenzene	227,000	348,000 J	36,000	5,540 J
1,2-Dichloroethane	4,200 U	310,000 U	530 U	1,300 U
1,2-Dichloropropane	21,000 U	1,500,000 U	2,700 U	6,500 U
1,3,5-Trimethylbenzene	93,700	282,000 J	10,100	1,550 J
1,3-Dichlorobenzene	2,680 J	1,500,000 U	392 J	6,500 U
1,3-Dichloropropene (total)	21,000 U	1,500,000 U	2,700 U	6,500 U
1,4-Dichlorobenzene	12,200 J	1,500,000 U	1,830 J	6,500 U
1,4-Dioxane	520,000 U	38,000,000 U	66,000 U	160,000 U
2-Butanone	42,000 U	3,100,000 U	5,300 U	13,000 U
2-Hexanone	21,000 U	1,500,000 U	2,700 U	6,500 U
2-Nitropropane	42,000 U	3,100,000 U	5,300 U	13,000 U
4-Methyl-2-pentanone	21,000 U	1,500,000 U	2,700 U	6,500 U
Acetone	42,000 U	3,100,000 U	5,300 U	13,000 U
Acetonitrile	420,000 U	31,000,000 U	53,000 U	130,000 U
Acrolein	210,000 U	15,000,000 U	27,000 U	65,000 U
Acrylonitrile	210,000 U	15,000,000 U	27,000 U	65,000 U
Ailly chloride	21,000 U	1,500,000 U	2,700 U	6,500 U
Benzene	1,860,000	207,000,000	78,500	142,000
Bromochloromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Bromodichloromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Bromoform	21,000 U	1,500,000 U	2,700 U	6,500 U
Bromomethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Carbon Disulfide	21,000 U	413,000 J	2,700 U	6,500 U
Carbon Tetrachloride	21,000 U	1,500,000 U	2,700 U	6,500 U
Chlorobenzene	21,000 U	1,500,000 U	233 J	6,500 U
Chloroethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Chloroform	21,000 U	1,500,000 U	2,700 U	6,500 U
Chloromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Chloroprene	21,000 U	1,500,000 U	2,700 U	6,500 U
cis-1,2-Dichloroethene	21,000 U	1,500,000 U	2,700 U	6,500 U
cis-1,3-Dichloropropylene	21,000 U	1,500,000 U	2,700 U	6,500 U
Cyclohexane	21,000 U	1,500,000 U	1,100 J	6,500 U
Dibromochloromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Dichlorodifluoromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Di-Isopropyl ether	21,000 U	1,500,000 U	2,700 U	6,500 U
Ethyl Acetate	21,000 U	1,500,000 U	2,700 U	6,500 U
Ethyl Acrylate	21,000 U	1,500,000 U	2,700 U	6,500 U
Ethyl Ether	21,000 U	1,500,000 U	2,700 U	6,500 U
Ethylbenzene	18,000	427,000	1,570	763 J
Freon 113	21,000 U	1,500,000 U	2,700 U	6,500 U
Isobutyl Alcohol	170,000 U	4,900 U	2,400 U	2,400 U
Isopropylbenzene	56,000	1,710,000	8,290	2,360 J
m,p-Xylene	236,000	4,370,000	17,500	6,000
Methacrylonitrile	42,000 U	3,100,000 U	5,300 U	13,000 U
Methyl Acetate	21,000 U	1,500,000 U	2,700 U	6,500 U
Methyl Cyclohexane	22,900	1,500,000 U	5,090	7,470
Methyl methacrylate	42,000 U	3,100,000 U	5,300 U	13,000 U
Methyl Ter. Butyl Ether	4,200 U	310,000 U	530 U	1,300 U
Methylene Chloride	21,000 U	1,500,000 U	2,700 U	6,500 U
n-Butyl Alcohol	170,000 U	4,900 U	2,400 U	2,400 U
n-Propyl Alcohol	170,000 U	4,900 U	2,400 U	2,400 U
o-Xylene	75,500	926,000	6,940	1,820

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IM01VR0F 01_05042010	IM01HC0F 02_05042010	IM01CA0R 01_05032010	IM01DUP0 01_05032010
Sample Date	5/4/2010	5/4/2010	5/3/2010	5/3/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	170,000 U	4,900 U	2,400 U	2,400 U
Styrene	21,000 U	1,500,000 U	2,700 U	6,500 U
Tert Butyl Alcohol	100,000 U	7,700,000 U	13,000 U	33,000 U
Tetrachloroethene	21,000 U	1,500,000 U	2,700 U	6,500 U
Tetrahydrofuran	42,000 U	3,100,000 U	5,300 U	13,000 U
Toluene	670,000	40,700,000	36,400	26,100
trans-1,2-Dichloroethene	21,000 U	1,500,000 U	2,700 U	6,500 U
trans-1,3-Dichloropropene	21,000 U	1,500,000 U	2,700 U	6,500 U
Trichloroethene	21,000 U	1,500,000 U	2,700 U	6,500 U
Trichlorofluoromethane	21,000 U	1,500,000 U	2,700 U	6,500 U
Vinyl Acetate	42,000 U	3,100,000 U	5,300 U	13,000 U
Vinyl Chloride	21,000 U	1,500,000 U	2,700 U	6,500 U
Xylene (Total)	311,000	5,300,000	24,500	7,820

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1HCOG 01_05032010	IMO1VR0H 01_04302010	IMO1CA0S 01_05052010	IMO1HC0I 02_05052010
Sample Date	5/3/2010	4/30/2010	5/5/2010	5/5/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,1,1-Trichloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,1,2,2-Tetrachloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,1,2-Trichloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,1-Dichloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,1-Dichloroethene	7,500 U	130,000 U	680,000 U	1,700,000 U
1,2,3-Trichlorobenzene	7,500 U	130,000 U	680,000 U	1,700,000 U
1,2,3-Trichloropropane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,2,4-Trichlorobenzene	7,500 U	130,000 U	680,000 U	1,700,000 U
1,2-Dibromo-3-chloropropane	15,000 U	250,000 U	1,400,000 U	3,500,000 U
1,2-Dibromoethane	1,500 U	25,000 U	140,000 U	350,000 U
1,2-Dichlorobenzene	10,300	714,000	702,000	1,050,000 J, 39
1,2-Dichloroethane	1,500 U	25,000 U	140,000 U	350,000 U
1,2-Dichloropropane	7,500 U	130,000 U	680,000 U	1,700,000 U
1,3,5-Trimethylbenzene	4,900 J	271,000	374,000 J	647,000 J, 39
1,3-Dichlorobenzene	7,500 U	130,000 U	680,000 U	1,700,000 U
1,3-Dichloropropene (total)	7,500 U	130,000 U	680,000 U	1,700,000 U
1,4-Dichlorobenzene	681 J	41,100 J	60,300 J	1,700,000 U
1,4-Dioxane	190,000 U	3,100,000 U	17,000,000 U	43,000,000 U J, 91
2-Butanone	15,000 U	250,000 U	1,400,000 U	3,500,000 U
2-Hexanone	7,500 U	130,000 U	680,000 U	1,700,000 U
2-Nitropropane	15,000 U	250,000 U	1,400,000 U	3,500,000 U J, 91
4-Methyl-2-pentanone	7,500 U	130,000 U	680,000 U	1,700,000 U
Acetone	15,000 U	250,000 U	1,400,000 U	3,500,000 U
Acetonitrile	150,000 U	2,500,000 U	14,000,000 U	35,000,000 U J, 91
Acrolein	75,000 U	1,300,000 U	6,800,000 U	17,000,000 U
Acrylonitrile	75,000 U	1,300,000 U	6,800,000 U	17,000,000 U
Aillyl chloride	7,500 U	130,000 U	680,000 U	1,700,000 U
Benzene	237,000	18,000,000	50,300,000	181,000,000
Bromochloromethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Bromodichloromethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Bromoform	7,500 U	130,000 U	680,000 U	1,700,000 U
Bromomethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Carbon Disulfide	7,500 U	30,500 J	98,500 J	288,000 J, 39
Carbon Tetrachloride	7,500 U	130,000 U	680,000 U	1,700,000 U
Chlorobenzene	2,350 J	130,000 U	680,000 U	1,700,000 U
Chloroethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Chloroform	7,500 U	130,000 U	680,000 U	1,700,000 U
Chloromethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Chloroprene	7,500 U	130,000 U	680,000 U	1,700,000 U
cis-1,2-Dichloroethene	7,500 U	130,000 U	680,000 U	1,700,000 U
cis-1,3-Dichloropropylene	7,500 U	130,000 U	680,000 U	1,700,000 U
Cyclohexane	7,500 U	130,000 U	680,000 U	1,700,000 U
Dibromochloromethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Dichlorodifluoromethane	7,500 U	130,000 U	680,000 U	1,700,000 U J, 91
Di-Isopropyl ether	7,500 U	130,000 U	680,000 U	1,700,000 U
Ethyl Acetate	7,500 U	130,000 U	680,000 U	1,700,000 U
Ethyl Acrylate	7,500 U	130,000 U	680,000 U	1,700,000 U
Ethyl Ether	7,500 U	130,000 U	680,000 U	1,700,000 U
Ethylbenzene	2,150	76,700	249,000	529,000
Freon 113	7,500 U	130,000 U	680,000 U	1,700,000 U
Isobutyl Alcohol	2,800 U	100,000 U	220,000 U	260,000 U
Isopropylbenzene	10,900	234,000	750,000	1,540,000 J, 39
m,p-Xylene	18,400	966,000	2,740,000	5,610,000
Methacrylonitrile	15,000 U	250,000 U	1,400,000 U	3,500,000 U
Methyl Acetate	7,500 U	130,000 U	680,000 U	1,700,000 U
Methyl Cyclohexane	9,330	130,000 U	680,000 U	1,700,000 U
Methyl methacrylate	15,000 U	250,000 U	1,400,000 U	3,500,000 U
Methyl Ter. Butyl Ether	1,500 U	25,000 U	140,000 U	350,000 U
Methylene Chloride	7,500 U	130,000 U	680,000 U	1,700,000 U
n-Butyl Alcohol	2,800 U	100,000 U	220,000 U	260,000 U
n-Propyl Alcohol	2,800 U	100,000 U	220,000 U	260,000 U
o-Xylene	5,260	288,000	690,000	1,300,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1HCOG 01_05032010	IMO1VR0H 01_04302010	IMO1CA0S 01_05052010	IMO1HC0I 02_05052010
Sample Date	5/3/2010	4/30/2010	5/5/2010	5/5/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	2,800 U	100,000 U	220,000 U	260,000 U
Styrene	7,500 U	130,000 U	680,000 U	1,700,000 U
Tert Butyl Alcohol	37,000 U	630,000 U	3,400,000 U	8,700,000 U
Tetrachloroethene	7,500 U	130,000 U	680,000 U	1,700,000 U
Tetrahydrofuran	15,000 U	250,000 U	1,400,000 U	3,500,000 U
Toluene	70,100	4,000,000	15,800,000	35,800,000
trans-1,2-Dichloroethene	7,500 U	130,000 U	680,000 U	1,700,000 U
trans-1,3-Dichloropropene	7,500 U	130,000 U	680,000 U	1,700,000 U
Trichloroethene	7,500 U	130,000 U	680,000 U	1,700,000 U
Trichlorofluoromethane	7,500 U	130,000 U	680,000 U	1,700,000 U
Vinyl Acetate	15,000 U	250,000 U	1,400,000 U	3,500,000 U
Vinyl Chloride	7,500 U	130,000 U	680,000 U	1,700,000 U
Xylene (Total)	23,700	1,250,000	3,430,000	6,910,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1HC0J 02_05042010	IMO1VR0K 01_05062010	IMO1HC0K 02_05062010	IMO1HCOL 02_05072010
Sample Date	5/4/2010	5/6/2010	5/6/2010	5/7/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
1,1,2-Tetrachloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,1,1-Trichloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,1,2,2-Tetrachloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,1,2-Trichloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,1-Dichloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,1-Dichloroethene	2,400,000 U	190,000 U	170,000 U	490,000 U
1,2,3-Trichlorobenzene	2,400,000 U	190,000 U	170,000 U	490,000 U
1,2,3-Trichloropropane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,2,4-Trichlorobenzene	2,400,000 U	190,000 U	170,000 U	490,000 U
1,2-Dibromo-3-chloropropane	4,800,000 U	370,000 U	350,000 U	990,000 U
1,2-Dibromoethane	480,000 U	37,000 U	35,000 U	99,000 U
1,2-Dichlorobenzene	1,940,000 J	517,000	476,000	2,550,000
1,2-Dichloroethane	480,000 U	37,000 U	35,000 U	99,000 U
1,2-Dichloropropane	2,400,000 U	190,000 U	170,000 U	490,000 U
1,3,5-Trimethylbenzene	770,000 J	129,000 J	164,000 J	1,000,000
1,3-Dichlorobenzene	2,400,000 U	190,000 U	170,000 U	35,300 J
1,3-Dichloropropene (total)	2,400,000 U	190,000 U	170,000 U	490,000 U
1,4-Dichlorobenzene	205,000 J	32,500 J	26,500 J	157,000 J
1,4-Dioxane	59,000,000 U	4,600,000 U	4,300,000 U	12,000,000 U
2-Butanone	4,800,000 U	370,000 U	350,000 U	990,000 U
2-Hexanone	2,400,000 U	190,000 U	170,000 U	490,000 U
2-Nitropropane	4,800,000 U	370,000 U	350,000 U	990,000 U
4-Methyl-2-pentanone	2,400,000 U	190,000 U	170,000 U	490,000 U
Acetone	4,800,000 U	370,000 U	350,000 U	990,000 U
Acetonitrile	48,000,000 U	3,700,000 U	3,500,000 U	9,900,000 U
Acrolein	24,000,000 U	1,900,000 U	1,700,000 U	4,900,000 U
Acrylonitrile	24,000,000 U	1,900,000 U	1,700,000 U	4,900,000 U
Ailly chloride	2,400,000 U	190,000 U	170,000 U	490,000 U
Benzene	68,700,000	13,500,000	14,900,000	54,100,000
Bromochloromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Bromodichloromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Bromoform	2,400,000 U	190,000 U	170,000 U	490,000 U
Bromomethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Carbon Disulfide	2,400,000 U	24,000 J	18,900 J	116,000 J
Carbon Tetrachloride	2,400,000 U	190,000 U	170,000 U	490,000 U
Chlorobenzene	2,400,000 U	190,000 U	170,000 U	490,000 U
Chloroethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Chloroform	2,400,000 U	190,000 U	170,000 U	490,000 U
Chloromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Chloroprene	2,400,000 U	190,000 U	170,000 U	490,000 U
cis-1,2-Dichloroethene	2,400,000 U	190,000 U	170,000 U	490,000 U
cis-1,3-Dichloropropylene	2,400,000 U	190,000 U	170,000 U	490,000 U
Cyclohexane	2,400,000 U	190,000 U	170,000 U	490,000 U
Dibromochloromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Dichlorodifluoromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Di-Isopropyl ether	2,400,000 U	190,000 U	170,000 U	490,000 U
Ethyl Acetate	2,400,000 U	190,000 U	170,000 U	490,000 U
Ethyl Acrylate	2,400,000 U	190,000 U	170,000 U	490,000 U
Ethyl Ether	2,400,000 U	190,000 U	170,000 U	490,000 U
Ethylbenzene	303,000 J	51,400	153,000	267,000
Freon 113	2,400,000 U	190,000 U	170,000 U	490,000 U
Isobutyl Alcohol	200,000 U	160,000 U	270,000 U	170,000 U
Isopropylbenzene	682,000 J	184,000 J	688,000	810,000
m,p-Xylene	3,350,000	591,000	1,620,000	3,650,000
Methacrylonitrile	4,800,000 U	370,000 U	350,000 U	990,000 U
Methyl Acetate	2,400,000 U	190,000 U	170,000 U	490,000 U
Methyl Cyclohexane	2,400,000 U	190,000 U	170,000 U	490,000 U
Methyl methacrylate	4,800,000 U	370,000 U	350,000 U	990,000 U
Methyl Ter. Butyl Ether	480,000 U	37,000 U	35,000 U	99,000 U
Methylene Chloride	2,400,000 U	190,000 U	170,000 U	490,000 U
n-Butyl Alcohol	200,000 U	160,000 U	270,000 U	170,000 U
n-Propyl Alcohol	200,000 U	160,000 U	270,000 U	170,000 U
o-Xylene	894,000	146,000	384,000	1,000,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1HC0J 02_05042010	IMO1VR0K 01_05062010	IMO1HC0K 02_05062010	IMO1HCOL 02_05072010
Sample Date	5/4/2010	5/6/2010	5/6/2010	5/7/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	200,000 U	160,000 U	270,000 U	170,000 U
Styrene	2,400,000 U	190,000 U	170,000 U	490,000 U
Tert Butyl Alcohol	12,000,000 U	930,000 U	860,000 U	2,500,000 U
Tetrachloroethene	2,400,000 U	190,000 U	170,000 U	490,000 U
Tetrahydrofuran	4,800,000 U	370,000 U	350,000 U	990,000 U
Toluene	16,700,000	3,290,000	6,810,000	14,900,000
trans-1,2-Dichloroethene	2,400,000 U	190,000 U	170,000 U	490,000 U
trans-1,3-Dichloropropene	2,400,000 U	190,000 U	170,000 U	490,000 U
Trichloroethene	2,400,000 U	190,000 U	170,000 U	490,000 U
Trichlorofluoromethane	2,400,000 U	190,000 U	170,000 U	490,000 U
Vinyl Acetate	4,800,000 U	370,000 U	350,000 U	990,000 U
Vinyl Chloride	2,400,000 U	190,000 U	170,000 U	490,000 U
Xylene (Total)	4,240,000	737,000	2,000,000	4,650,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IMO1HCOL_03_05072010 5/7/2010 SL ug/kg	IMO1VR0M_01_05052010 5/5/2010 SL ug/kg	IMO1HCOM_02_05052010 5/5/2010 SL ug/kg	IMO1HC0N_02_05042010 5/4/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	640,000 U	770 U	1,700,000 U	560,000 U
1,1,1-Trichloroethane	640,000 U	770 U	1,700,000 U	560,000 U
1,1,2,2-Tetrachloroethane	640,000 U	770 U	1,700,000 U	560,000 U
1,1,2-Trichloroethane	640,000 U	770 U	1,700,000 U	560,000 U
1,1-Dichloroethane	640,000 U	770 U	1,700,000 U	560,000 U
1,1-Dichloroethene	640,000 U	770 U	1,700,000 U	560,000 U
1,2,3-Trichlorobenzene	640,000 U	770 U	1,700,000 U	560,000 U
1,2,3-Trichloropropane	640,000 U	770 U	1,700,000 U	560,000 U
1,2,4-Trichlorobenzene	640,000 U	770 U	1,700,000 U	560,000 U
1,2-Dibromo-3-chloropropane	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
1,2-Dibromoethane	130,000 U	150 U	330,000 U	110,000 U
1,2-Dichlorobenzene	720,000	3,390	1,050,000 J	769,000
1,2-Dichloroethane	130,000 U	150 U	330,000 U	110,000 U
1,2-Dichloropropane	640,000 U	770 U	1,700,000 U	560,000 U
1,3,5-Trimethylbenzene	287,000 J	2,300	1,700,000 U	361,000 J
1,3-Dichlorobenzene	640,000 U	770 U	1,700,000 U	560,000 U
1,3-Dichloropropene (total)	640,000 U	770 U	1,700,000 U	560,000 U
1,4-Dichlorobenzene	48,100 J	197 J	1,700,000 U	59,600 J
1,4-Dioxane	16,000,000 U	19,000 U	41,000,000 U	14,000,000 U
2-Butanone	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
2-Hexanone	640,000 U	770 U	1,700,000 U	560,000 U
2-Nitropropane	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
4-Methyl-2-pentanone	640,000 U	770 U	1,700,000 U	560,000 U
Acetone	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
Acetonitrile	13,000,000 U	15,000 U	33,000,000 U	11,000,000 U
Acrolein	6,400,000 U	7,700 U	17,000,000 U	5,600,000 U
Acrylonitrile	6,400,000 U	7,700 U	17,000,000 U	5,600,000 U
Ailly chloride	640,000 U	770 U	1,700,000 U	560,000 U
Benzene	69,600,000	99,100	137,000,000	12,200,000
Bromochloromethane	640,000 U	770 U	1,700,000 U	560,000 U
Bromodichloromethane	640,000 U	770 U	1,700,000 U	560,000 U
Bromoform	640,000 U	770 U	1,700,000 U	560,000 U
Bromomethane	640,000 U	770 U	1,700,000 U	560,000 U
Carbon Disulfide	113,000 J	100 J	362,000 J	560,000 U
Carbon Tetrachloride	640,000 U	770 U	1,700,000 U	560,000 U
Chlorobenzene	640,000 U	770 U	1,700,000 U	560,000 U
Chloroethane	640,000 U	770 U	1,700,000 U	560,000 U
Chloroform	640,000 U	770 U	1,700,000 U	560,000 U
Chloromethane	640,000 U	770 U	1,700,000 U	560,000 U
Chloroprene	640,000 U	770 U	1,700,000 U	560,000 U
cis-1,2-Dichloroethene	640,000 U	770 U	1,700,000 U	560,000 U
cis-1,3-Dichloropropylene	640,000 U	770 U	1,700,000 U	560,000 U
Cyclohexane	640,000 U	1,640	1,700,000 U	560,000 U
Dibromochloromethane	640,000 U	770 U	1,700,000 U	560,000 U
Dichlorodifluoromethane	640,000 U	770 U	1,700,000 U	560,000 U
Di-Isopropyl ether	640,000 U	770 U	1,700,000 U	560,000 U
Ethyl Acetate	640,000 U	770 U	1,700,000 U	560,000 U
Ethyl Acrylate	640,000 U	770 U	1,700,000 U	560,000 U
Ethyl Ether	640,000 U	770 U	1,700,000 U	560,000 U
Ethylbenzene	221,000	1,580	317,000 J	103,000 J
Freon 113	640,000 U	770 U	1,700,000 U	560,000 U
Isobutyl Alcohol	200,000 U	140,000 U	260,000 U	180,000 U
Isopropylbenzene	672,000	6,580	973,000 J	328,000 J
m,p-Xylene	2,500,000	13,500	3,150,000	1,270,000
Methacrylonitrile	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
Methyl Acetate	640,000 U	770 U	1,700,000 U	560,000 U
Methyl Cyclohexane	640,000 U	5,510	1,700,000 U	560,000 U
Methyl methacrylate	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
Methyl Ter. Butyl Ether	130,000 U	150 U	330,000 U	110,000 U
Methylene Chloride	640,000 U	770 U	1,700,000 U	560,000 U
n-Butyl Alcohol	200,000 U	140,000 U	260,000 U	180,000 U
n-Propyl Alcohol	200,000 U	140,000 U	260,000 U	180,000 U
o-Xylene	595,000	4,490	672,000	326,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IMO1HCOL_03_05072010	IMO1VR0M_01_05052010	IMO1HCOM_02_05052010	IMO1HC0N_02_05042010
Sample Date	5/7/2010	5/5/2010	5/5/2010	5/4/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	200,000 U	140,000 U	260,000 U	180,000 U
Styrene	640,000 U	770 U	1,700,000 U	560,000 U
Tert Butyl Alcohol	3,200,000 U	3,800 U	8,300,000 U	2,800,000 U
Tetrachloroethene	640,000 U	770 U	1,700,000 U	560,000 U
Tetrahydrofuran	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
Toluene	17,400,000	<i>40,100</i>	29,700,000	4,480,000
trans-1,2-Dichloroethene	640,000 U	770 U	1,700,000 U	560,000 U
trans-1,3-Dichloropropene	640,000 U	770 U	1,700,000 U	560,000 U
Trichloroethene	640,000 U	770 U	1,700,000 U	560,000 U
Trichlorofluoromethane	640,000 U	770 U	1,700,000 U	560,000 U
Vinyl Acetate	1,300,000 U	1,500 U	3,300,000 U	1,100,000 U
Vinyl Chloride	640,000 U	770 U	1,700,000 U	560,000 U
Xylene (Total)	3,090,000	18,000	3,830,000	1,600,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

39=The reported concentration is

quantitative qualified because the

concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM01VR00 01_05062010 5/6/2010 SL ug/kg	IM01HC00 02_05062010 5/6/2010 SL ug/kg	IM02VR0A 01_04222010 4/22/2010 SL ug/kg	IM02HCOA 02_04222010 4/22/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,1,1-Trichloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,1,2,2-Tetrachloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,1,2-Trichloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,1-Dichloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,1-Dichloroethene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,2,3-Trichlorobenzene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,2,3-Trichloropropane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,2,4-Trichlorobenzene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,2-Dibromo-3-chloropropane	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
1,2-Dibromoethane	120,000 U	270,000 U	40,000 U	2,500,000 U
1,2-Dichlorobenzene	2,180,000	1,120,000 J	1,670,000	13,000,000 U
1,2-Dichloroethane	120,000 U	270,000 U	40,000 U	2,500,000 U
1,2-Dichloropropane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,3,5-Trimethylbenzene	1,110,000	486,000 J	240,000	13,000,000 U
1,3-Dichlorobenzene	600,000 U	1,300,000 U	29,900 J	13,000,000 U
1,3-Dichloropropene (total)	600,000 U	1,300,000 U	200,000 U	13,000,000 U
1,4-Dichlorobenzene	138,000 J	1,300,000 U	146,000 J	13,000,000 U
1,4-Dioxane	15,000,000 U	34,000,000 U	5,000,000 U	310,000,000 U
2-Butanone	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
2-Hexanone	600,000 U	1,300,000 U	200,000 U	13,000,000 U
2-Nitropropane	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
4-Methyl-2-pentanone	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Acetone	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
Acetonitrile	12,000,000 U	27,000,000 U	4,000,000 U	250,000,000 U
Acrolein	6,000,000 U	13,000,000 U	2,000,000 U	130,000,000 U
Acrylonitrile	6,000,000 U	13,000,000 U	2,000,000 U	130,000,000 U
Ailly chloride	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Benzene	69,800,000	129,000,000	24,000,000	37,700,000
Bromochloromethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Bromodichloromethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Bromoform	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Bromomethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Carbon Disulfide	129,000 J	356,000 J	62,700 J	13,000,000 U
Carbon Tetrachloride	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Chlorobenzene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Chloroethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Chloroform	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Chloromethane	600,000 U	1,300,000 U	26,900 J	13,000,000 U
Chloroprene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
cis-1,2-Dichloroethene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
cis-1,3-Dichloropropylene	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Cyclohexane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Dibromochloromethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Dichlorodifluoromethane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Di-Isopropyl ether	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Ethyl Acetate	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Ethyl Acrylate	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Ethyl Ether	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Ethylbenzene	387,000	392,000	114,000	2,500,000 U
Freon 113	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Isobutyl Alcohol	230,000 U	210,000 U	2,600 U	5,100 U
Isopropylbenzene	1,420,000	1,460,000	208,000	13,000,000 U
m,p-Xylene	4,880,000	4,480,000	1,280,000	5,000,000 U
Methacrylonitrile	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
Methyl Acetate	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Methyl Cyclohexane	600,000 U	1,300,000 U	200,000 U	13,000,000 U
Methyl methacrylate	1,200,000 U	2,700,000 U	400,000 U	25,000,000 U
Methyl Tert Butyl Ether	120,000 U	270,000 U	40,000 U	2,500,000 U
Methylene Chloride	600,000 U	1,300,000 U	200,000 U	13,000,000 U
n-Butyl Alcohol	230,000 U	210,000 U	2,600 U	5,100 U
n-Propyl Alcohol	230,000 U	210,000 U	2,600 U	5,100 U
o-Xylene	1,340,000	1,040,000	316,000	2,500,000 U

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IM01VROO 01_05062010	IM01HC00 02_05062010	IM02VROA 01_04222010	IM02HC0A 02_04222010
Sample Date	5/6/2010	5/6/2010	4/22/2010	4/22/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	230,000 U	210,000 U	2,600 U	5,100 U
Styrene	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Tert Butyl Alcohol	3,000,000 U	6,700,000 U	1,000,000 U	<i>63,000,000 U</i>
Tetrachloroethene	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Tetrahydrofuran	1,200,000 U	2,700,000 U	400,000 U	<i>25,000,000 U</i>
Toluene	21,000,000	33,000,000	7,390,000	<i>5,000,000</i>
trans-1,2-Dichloroethene	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
trans-1,3-Dichloropropene	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Trichloroethene	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Trichlorofluoromethane	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Vinyl Acetate	1,200,000 U	2,700,000 U	400,000 U	<i>25,000,000 U</i>
Vinyl Chloride	600,000 U	1,300,000 U	200,000 U	<i>13,000,000 U</i>
Xylene (Total)	6,210,000	5,510,000	1,600,000	<i>5,000,000 U</i>

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VROB 01_04222010 4/22/2010 SL ug/kg	IM02HC0B 02_04222010 4/22/2010 SL ug/kg	IM02VROC 01_04262010 4/26/2010 SL ug/kg	IM02HCOC 02_04262010 4/26/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	250,000 U	500,000 U	200,000 U	500,000 U
1,1,1-Trichloroethane	250,000 U	500,000 U	200,000 U	500,000 U
1,1,2,2-Tetrachloroethane	250,000 U	500,000 U	200,000 U	500,000 U
1,1,2-Trichloroethane	250,000 U	500,000 U	200,000 U	500,000 U
1,1-Dichloroethane	250,000 U	500,000 U	200,000 U	500,000 U
1,1-Dichloroethene	250,000 U	500,000 U	200,000 U	500,000 U
1,2,3-Trichlorobenzene	250,000 U	500,000 U	200,000 U	500,000 U
1,2,3-Trichloropropane	250,000 U	500,000 U	200,000 U	500,000 U
1,2,4-Trichlorobenzene	250,000 U	500,000 U	200,000 U	500,000 U
1,2-Dibromo-3-chloropropane	500,000 U	1,000,000 U	400,000 U	1,000,000 U
1,2-Dibromoethane	50,000 U	100,000 U	40,000 U	100,000 U
1,2-Dichlorobenzene	1,070,000	1,220,000	2,440,000	500,000
1,2-Dichloroethane	50,000 U	100,000 U	40,000 U	100,000 U
1,2-Dichloropropane	250,000 U	500,000 U	200,000 U	500,000 U
1,3,5-Trimethylbenzene	171,000 J	185,000 J	406,000	127,000 J
1,3-Dichlorobenzene	15,300 J	500,000 U	45,600 J	500,000 U
1,3-Dichloropropene (total)	250,000 U	500,000 U	200,000 U	500,000 U
1,4-Dichlorobenzene	83,900 J	93,800 J	210,000	50,800 J
1,4-Dioxane	6,300,000 U	13,000,000 U	5,000,000 U	13,000,000 U
2-Butanone	500,000 U	1,000,000 U	400,000 U	1,000,000 U
2-Hexanone	250,000 U	500,000 U	200,000 U	500,000 U
2-Nitropropane	500,000 U	1,000,000 U	400,000 U	1,000,000 U
4-Methyl-2-pentanone	250,000 U	500,000 U	200,000 U	500,000 U
Acetone	500,000 U	1,000,000 U	400,000 U	1,000,000 U
Acetonitrile	5,000,000 U	10,000,000 U	4,000,000 U	10,000,000 U
Acrolein	2,500,000 U	5,000,000 U	2,000,000 U	5,000,000 U
Acrylonitrile	2,500,000 U	5,000,000 U	2,000,000 U	5,000,000 U
Aillyl chloride	250,000 U	500,000 U	200,000 U	500,000 U
Benzene	39,600,000	52,600,000	30,200,000	59,800,000
Bromochloromethane	250,000 U	500,000 U	200,000 U	500,000 U
Bromodichloromethane	250,000 U	500,000 U	200,000 U	500,000 U
Bromoform	250,000 U	500,000 U	200,000 U	500,000 U
Bromomethane	250,000 U	500,000 U	200,000 U	500,000 U
Carbon Disulfide	66,300 J	73,500 J	59,500 J	110,000 J
Carbon Tetrachloride	250,000 U	500,000 U	200,000 U	500,000 U
Chlorobenzene	250,000 U	500,000 U	19,800 J	500,000 U
Chloroethane	250,000 U	500,000 U	200,000 U	500,000 U
Chloroform	250,000 U	500,000 U	200,000 U	500,000 U
Chloromethane	250,000 U	500,000 U	24,600 J	174,000 J
Chloroprene	250,000 U	500,000 U	200,000 U	500,000 U
cis-1,2-Dichloroethene	250,000 U	500,000 U	200,000 U	500,000 U
cis-1,3-Dichloropropylene	250,000 U	500,000 U	200,000 U	500,000 U
Cyclohexane	250,000 U	500,000 U	23,000 J	500,000 U
Dibromochloromethane	250,000 U	500,000 U	200,000 U	500,000 U
Dichlorodifluoromethane	250,000 U	500,000 U	200,000 U	500,000 U
Di-Isopropyl ether	250,000 U	500,000 U	200,000 U	500,000 U
Ethyl Acetate	250,000 U	500,000 U	200,000 U	500,000 U
Ethyl Acrylate	250,000 U	500,000 U	200,000 U	500,000 U
Ethyl Ether	250,000 U	500,000 U	200,000 U	500,000 U
Ethylbenzene	133,000	121,000	153,000	146,000
Freon 113	250,000 U	500,000 U	200,000 U	500,000 U
Isobutyl Alcohol	5,000 U	5,000 U	100,000 U	100,000 U
Isopropylbenzene	286,000	242,000 J	342,000	432,000 J
m,p-Xylene	1,390,000	1,290,000	1,770,000	1,870,000
Methacrylonitrile	500,000 U	1,000,000 U	400,000 U	1,000,000 U
Methyl Acetate	1,190,000	1,270,000	200,000 U	907,000
Methyl Cyclohexane	250,000 U	500,000 U	200,000 U	500,000 U
Methyl methacrylate	500,000 U	1,000,000 U	400,000 U	1,000,000 U
Methyl Ter. Butyl Ether	50,000 U	100,000 U	40,000 U	100,000 U
Methylene Chloride	250,000 U	500,000 U	200,000 U	500,000 U
n-Butyl Alcohol	5,000 U	5,000 U	100,000 U	100,000 U
n-Propyl Alcohol	5,000 U	5,000 U	100,000 U	100,000 U
o-Xylene	333,000	310,000	466,000	381,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IM02VROB 01_04222010	IM02HC0B 02_04222010	IM02VROC 01_04262010	IM02HCOC 02_04262010
Sample Date	4/22/2010	4/22/2010	4/26/2010	4/26/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	5,000 U	5,000 U	100,000 U	100,000 U
Styrene	250,000 U	500,000 U	200,000 U	500,000 U
Tert Butyl Alcohol	1,300,000 U	2,500,000 U	1,000,000 U	2,500,000 U
Tetrachloroethene	250,000 U	500,000 U	200,000 U	500,000 U
Tetrahydrofuran	500,000 U	1,000,000 U	400,000 U	1,000,000 U
Toluene	9,140,000	8,940,000	8,560,000	13,500,000
trans-1,2-Dichloroethene	250,000 U	500,000 U	200,000 U	500,000 U
trans-1,3-Dichloropropene	250,000 U	500,000 U	200,000 U	500,000 U
Trichloroethene	250,000 U	500,000 U	200,000 U	500,000 U
Trichlorofluoromethane	250,000 U	500,000 U	200,000 U	500,000 U
Vinyl Acetate	500,000 U	1,000,000 U	400,000 U	1,000,000 U
Vinyl Chloride	250,000 U	500,000 U	200,000 U	500,000 U
Xylene (Total)	1,720,000	1,600,000	2,230,000	2,250,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VR0D 01_04222010 4/22/2010 SL ug/kg	IM02HC0D 02_04222010 4/22/2010 SL ug/kg	IM02VR0E 01_04212010 4/21/2010 SL ug/kg	IM02HC0E 02_04212010 4/21/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,1,1-Trichloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,1,2,2-Tetrachloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,1,2-Trichloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,1-Dichloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,1-Dichloroethene	250,000 U	630,000 U	340,000 U	1,100,000 U
1,2,3-Trichlorobenzene	250,000 U	630,000 U	340,000 U	1,100,000 U
1,2,3-Trichloropropane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,2,4-Trichlorobenzene	250,000 U	630,000 U	340,000 U	1,100,000 U
1,2-Dibromo-3-chloropropane	500,000 U	1,300,000 U	690,000 U	2,200,000 U
1,2-Dibromoethane	50,000 U	130,000 U	69,000 U	220,000 U
1,2-Dichlorobenzene	1,150,000	1,250,000	3,180,000	3,230,000
1,2-Dichloroethane	50,000 U	130,000 U	69,000 U	220,000 U
1,2-Dichloropropane	250,000 U	630,000 U	340,000 U	1,100,000 U
1,3,5-Trimethylbenzene	150,000 J	224,000 J	572,000	565,000 J
1,3-Dichlorobenzene	16,500 J	630,000 U	54,700 J	1,100,000 U
1,3-Dichloropropene (total)	250,000 U	630,000 U	340,000 U	1,100,000 U
1,4-Dichlorobenzene	99,700 J	114,000 J	279,000 J	312,000 J
1,4-Dioxane	6,300,000 U	16,000,000 U	8,600,000 U	28,000,000 U
2-Butanone	500,000 U	1,300,000 U	690,000 U	2,200,000 U
2-Hexanone	250,000 U	630,000 U	340,000 U	1,100,000 U
2-Nitropropane	500,000 U	1,300,000 U	690,000 U	2,200,000 U
4-Methyl-2-pentanone	250,000 U	630,000 U	340,000 U	1,100,000 U
Acetone	500,000 U	1,300,000 U	690,000 U	2,200,000 U
Acetonitrile	5,000,000 U	13,000,000 U	6,900,000 U	22,000,000 U
Acrolein	2,500,000 U	6,300,000 U	3,400,000 U	11,000,000 U
Acrylonitrile	2,500,000 U	6,300,000 U	3,400,000 U	11,000,000 U
Aillyl chloride	250,000 U	630,000 U	340,000 U	1,100,000 U
Benzene	23,300,000	86,700,000	70,000,000	183,000,000
Bromochloromethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Bromodichloromethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Bromoform	250,000 U	630,000 U	340,000 U	1,100,000 U
Bromomethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Carbon Disulfide	37,100 J	139,000 J	134,000 J	285,000 J
Carbon Tetrachloride	250,000 U	630,000 U	340,000 U	1,100,000 U
Chlorobenzene	250,000 U	630,000 U	26,900 J	1,100,000 U
Chloroethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Chloroform	250,000 U	630,000 U	340,000 U	1,100,000 U
Chloromethane	250,000 U	82,300 J	340,000 U	119,000 J
Chloroprene	250,000 U	630,000 U	340,000 U	1,100,000 U
cis-1,2-Dichloroethene	250,000 U	630,000 U	340,000 U	1,100,000 U
cis-1,3-Dichloropropylene	250,000 U	630,000 U	340,000 U	1,100,000 U
Cyclohexane	250,000 U	630,000 U	33,100 J	1,100,000 U
Dibromochloromethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Dichlorodifluoromethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Di-Isopropyl ether	250,000 U	630,000 U	340,000 U	1,100,000 U
Ethyl Acetate	250,000 U	630,000 U	340,000 U	1,100,000 U
Ethyl Acrylate	250,000 U	630,000 U	340,000 U	1,100,000 U
Ethyl Ether	250,000 U	630,000 U	340,000 U	1,100,000 U
Ethylbenzene	81,900	219,000	324,000	591,000
Freon 113	250,000 U	630,000 U	340,000 U	1,100,000 U
Isobutyl Alcohol	5,200 U	2,000 U	2,900 U	3,000 U
Isopropylbenzene	163,000 J	455,000 J	719,000	1,400,000
m,p-Xylene	855,000	2,220,000	3,170,000	5,660,000
Methacrylonitrile	500,000 U	1,300,000 U	690,000 U	2,200,000 U
Methyl Acetate	250,000 U	630,000 U	340,000 U	1,100,000 U
Methyl Cyclohexane	250,000 U	630,000 U	386,000	1,160,000
Methyl methacrylate	500,000 U	1,300,000 U	690,000 U	2,200,000 U
Methyl Tert Butyl Ether	50,000 U	130,000 U	69,000 U	220,000 U
Methylene Chloride	250,000 U	630,000 U	340,000 U	1,100,000 U
n-Butyl Alcohol	5,200 U	2,000 U	2,900 U	3,000 U
n-Propyl Alcohol	5,200 U	2,000 U	2,900 U	3,000 U
o-Xylene	209,000	523,000	825,000	1,290,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VR0D 01_04222010 4/22/2010 SL ug/kg	IM02HC0D 02_04222010 4/22/2010 SL ug/kg	IM02VR0E 01_04212010 4/21/2010 SL ug/kg	IM02HC0E 02_04212010 4/21/2010 SL ug/kg
VOCs				
sec-Butyl Alcohol	5,200 U	2,000 U	2,900 U	3,000 U
Styrene	250,000 U	630,000 U	340,000 U	1,100,000 U
Tert Butyl Alcohol	1,300,000 U	3,100,000 U	1,700,000 U	5,500,000 U
Tetrachloroethene	250,000 U	630,000 U	340,000 U	1,100,000 U
Tetrahydrofuran	500,000 U	1,300,000 U	690,000 U	2,200,000 U
Toluene	5,070,000	17,100,000	18,200,000	40,200,000
trans-1,2-Dichloroethene	250,000 U	630,000 U	340,000 U	1,100,000 U
trans-1,3-Dichloropropene	250,000 U	630,000 U	340,000 U	1,100,000 U
Trichloroethene	250,000 U	630,000 U	340,000 U	1,100,000 U
Trichlorofluoromethane	250,000 U	630,000 U	340,000 U	1,100,000 U
Vinyl Acetate	500,000 U	1,300,000 U	690,000 U	2,200,000 U
Vinyl Chloride	250,000 U	630,000 U	340,000 U	1,100,000 U
Xylene (Total)	1,060,000	2,750,000	3,990,000	6,950,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

39=The reported concentration is

quantitative qualified because the

concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VR0F 01_04202010 4/20/2010 SL ug/kg	IM02INOF 02_04212010 4/21/2010 SL ug/kg	IM02HC0F 03_04212010 4/21/2010 SL ug/kg	IM02VR0G 01_04262010 4/26/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	110,000 U	970,000 U	140,000 U	200,000 U
1,1,1-Trichloroethane	110,000 U	970,000 U	140,000 U	200,000 U
1,1,2,2-Tetrachloroethane	110,000 U	970,000 U	140,000 U	200,000 U
1,1,2-Trichloroethane	110,000 U	970,000 U	140,000 U	200,000 U
1,1-Dichloroethane	110,000 U	970,000 U	140,000 U	200,000 U
1,1-Dichloroethene	110,000 U	970,000 U	140,000 U	200,000 U
1,2,3-Trichlorobenzene	110,000 U	970,000 U	140,000 U	200,000 U
1,2,3-Trichloropropane	110,000 U	970,000 U	140,000 U	200,000 U
1,2,4-Trichlorobenzene	110,000 U	970,000 U	140,000 U	200,000 U
1,2-Dibromo-3-chloropropane	220,000 U	1,900,000 U	280,000 U	400,000 U
1,2-Dibromoethane	22,000 U	190,000 U	28,000 U	40,000 U
1,2-Dichlorobenzene	3,670,000	1,500,000	1,460,000	1,240,000
1,2-Dichloroethane	22,000 U	190,000 U	28,000 U	40,000 U
1,2-Dichloropropane	110,000 U	970,000 U	140,000 U	200,000 U
1,3,5-Trimethylbenzene	780,000	315,000 J	291,000	198,000 J
1,3-Dichlorobenzene	62,900 J	970,000 U	25,700 J	27,500 J
1,3-Dichloropropene (total)	110,000 U	970,000 U	140,000 U	200,000 U
1,4-Dichlorobenzene	324,000	147,000 J	136,000 J	116,000 J
1,4-Dioxane	2,800,000 U	24,000,000 U	3,400,000 U	5,000,000 U
2-Butanone	220,000 U	1,900,000 U	280,000 U	400,000 U
2-Hexanone	110,000 U	970,000 U	140,000 U	200,000 U
2-Nitropropane	220,000 U	1,900,000 U	280,000 U	400,000 U
4-Methyl-2-pentanone	110,000 U	970,000 U	140,000 U	200,000 U
Acetone	220,000 U	1,900,000 U	561,000	400,000 U
Acetonitrile	2,200,000 U	19,000,000 U	2,800,000 U	4,000,000 U
Acrolein	1,100,000 U	9,700,000 U	1,400,000 U	2,000,000 U
Acrylonitrile	1,100,000 U	9,700,000 U	1,400,000 U	2,000,000 U
Aillyl chloride	110,000 U	970,000 U	140,000 U	200,000 U
Benzene	60,900,000	124,000,000	130,000,000	23,600,000
Bromochloromethane	110,000 U	970,000 U	140,000 U	200,000 U
Bromodichloromethane	110,000 U	970,000 U	140,000 U	200,000 U
Bromoform	110,000 U	970,000 U	140,000 U	200,000 U
Bromomethane	110,000 U	970,000 U	140,000 U	200,000 U
Carbon Disulfide	87,900 J	250,000 J	245,000	49,400 J
Carbon Tetrachloride	110,000 U	970,000 U	140,000 U	200,000 U
Chlorobenzene	53,500 J	970,000 U	18,200 J	200,000 U
Chloroethane	110,000 U	970,000 U	140,000 U	200,000 U
Chloroform	110,000 U	970,000 U	140,000 U	200,000 U
Chloromethane	110,000 U	970,000 U	104,000 J	53,400 J
Chloroprene	110,000 U	970,000 U	140,000 U	200,000 U
cis-1,2-Dichloroethene	110,000 U	970,000 U	140,000 U	200,000 U
cis-1,3-Dichloropropylene	110,000 U	970,000 U	140,000 U	200,000 U
Cyclohexane	39,100 J	970,000 U	25,800 J	200,000 U
Dibromochloromethane	110,000 U	970,000 U	140,000 U	200,000 U
Dichlorodifluoromethane	110,000 U	970,000 U	140,000 U	200,000 U
Di-Isopropyl ether	110,000 U	970,000 U	140,000 U	200,000 U
Ethyl Acetate	110,000 U	970,000 U	140,000 U	200,000 U
Ethyl Acrylate	110,000 U	970,000 U	140,000 U	200,000 U
Ethyl Ether	110,000 U	970,000 U	140,000 U	200,000 U
Ethylbenzene	418,000	404,000	356,000	103,000
Freon 113	110,000 U	970,000 U	140,000 U	200,000 U
Isobutyl Alcohol	3,600 U	8,000 U	11,000 U	100,000 U
Isopropylbenzene	980,000	943,000 J	868,000	192,000 J
m,p-Xylene	4,040,000	3,950,000	3,200,000	1,120,000
Methacrylonitrile	220,000 U	1,900,000 U	280,000 U	400,000 U
Methyl Acetate	110,000 U	970,000 U	2,210,000	200,000 U
Methyl Cyclohexane	172,000	1,030,000	173,000	200,000 U
Methyl methacrylate	220,000 U	1,900,000 U	280,000 U	400,000 U
Methyl Tert Butyl Ether	22,000 U	190,000 U	28,000 U	40,000 U
Methylene Chloride	110,000 U	970,000 U	140,000 U	200,000 U
n-Butyl Alcohol	3,600 U	8,000 U	11,000 U	100,000 U
n-Propyl Alcohol	3,600 U	8,000 U	11,000 U	100,000 U
o-Xylene	1,090,000	862,000	756,000	269,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IM02VROF 01_04202010	IM02INOF 02_04212010	IM02HC0F 03_04212010	IM02VR0G 01_04262010
Sample Date	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	3,600 U	8,000 U	11,000 U	100,000 U
Styrene	110,000 U	970,000 U	140,000 U	200,000 U
Tert Butyl Alcohol	560,000 U	4,900,000 U	690,000 U	1,000,000 U
Tetrachloroethene	110,000 U	970,000 U	140,000 U	200,000 U
Tetrahydrofuran	220,000 U	1,900,000 U	280,000 U	400,000 U
Toluene	<i>19,500,000</i>	29,500,000	<i>25,100,000</i>	5,970,000
trans-1,2-Dichloroethene	110,000 U	970,000 U	140,000 U	200,000 U
trans-1,3-Dichloropropene	110,000 U	970,000 U	140,000 U	200,000 U
Trichloroethene	110,000 U	970,000 U	140,000 U	200,000 U
Trichlorofluoromethane	110,000 U	970,000 U	140,000 U	200,000 U
Vinyl Acetate	220,000 U	1,900,000 U	280,000 U	400,000 U
Vinyl Chloride	110,000 U	970,000 U	140,000 U	200,000 U
Xylene (Total)	5,130,000	4,810,000	3,960,000	1,390,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02HC0G 02_04262010 4/26/2010 SL ug/kg	IM02VR0H 01_04272010 4/27/2010 SL ug/kg	IM02DUP0 01_04272010 4/27/2010 SL ug/kg	IM02VROI 01_04232010 4/23/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	500,000 U	200,000 U	200,000 U	500,000 U
1,1,1-Trichloroethane	500,000 U	200,000 U, 91	200,000 U	500,000 U
1,1,2,2-Tetrachloroethane	500,000 U	200,000 U	200,000 U	500,000 U
1,1,2-Trichloroethane	500,000 U	200,000 U	200,000 U	500,000 U
1,1-Dichloroethane	500,000 U	200,000 U	200,000 U	500,000 U
1,1-Dichloroethene	500,000 U	200,000 U	200,000 U	500,000 U
1,2,3-Trichlorobenzene	500,000 U	200,000 U	200,000 U	500,000 U
1,2,3-Trichloropropane	500,000 U	200,000 U	200,000 U	500,000 U
1,2,4-Trichlorobenzene	500,000 U	200,000 U	200,000 U	500,000 U
1,2-Dibromo-3-chloropropane	1,000,000 U	400,000 U	400,000 U	1,000,000 U
1,2-Dibromoethane	100,000 U	40,000 U	40,000 U	100,000 U
1,2-Dichlorobenzene	1,240,000	1,510,000	1,780,000	1,620,000
1,2-Dichloroethane	100,000 U	40,000 U, 91	40,000 U	100,000 U
1,2-Dichloropropane	500,000 U	200,000 U	200,000 U	500,000 U
1,3,5-Trimethylbenzene	213,000 J	185,000 J, 39	240,000	210,000 J
1,3-Dichlorobenzene	500,000 U	21,900 J, 39	27,600 J, 39	32,300 J
1,3-Dichloropropene (total)	500,000 U	200,000 U	200,000 U	500,000 U
1,4-Dichlorobenzene	105,000 J	125,000 J, 39	149,000 J, 39	146,000 J
1,4-Dioxane	13,000,000 U	5,000,000 U	5,000,000 U	13,000,000 U
2-Butanone	1,000,000 U	400,000 U	400,000 U	1,000,000 U
2-Hexanone	500,000 U	200,000 U	200,000 U	500,000 U
2-Nitropropane	1,000,000 U	400,000 U, 91	400,000 U	1,000,000 U
4-Methyl-2-pentanone	500,000 U	200,000 U	200,000 U	500,000 U
Acetone	1,000,000 U	400,000 U	400,000 U	1,000,000 U
Acetonitrile	10,000,000 U	4,000,000 U, 91	4,000,000 U	10,000,000 U
Acrolein	5,000,000 U	2,000,000 U	2,000,000 U	5,000,000 U
Acrylonitrile	5,000,000 U	2,000,000 U	2,000,000 U	5,000,000 U
Aillyl chloride	500,000 U	200,000 U	200,000 U	500,000 U
Benzene	52,400,000	19,300,000	22,300,000	43,900,000
Bromochloromethane	500,000 U	200,000 U	200,000 U	500,000 U
Bromodichloromethane	500,000 U	200,000 U	200,000 U	500,000 U
Bromoform	500,000 U	200,000 U	200,000 U	500,000 U
Bromomethane	500,000 U	200,000 U	200,000 U	500,000 U
Carbon Disulfide	85,900 J	40,300 J, 39	42,000 J, 39	109,000 J
Carbon Tetrachloride	500,000 U	200,000 U, 91	200,000 U	500,000 U
Chlorobenzene	500,000 U	200,000 U	200,000 U	500,000 U
Chloroethane	500,000 U	200,000 U	200,000 U	500,000 U
Chloroform	500,000 U	200,000 U	200,000 U	500,000 U
Chloromethane	178,000 J	200,000 U	200,000 U	500,000 U
Chloroprene	500,000 U	200,000 U	200,000 U	500,000 U
cis-1,2-Dichloroethene	500,000 U	200,000 U	200,000 U	500,000 U
cis-1,3-Dichloropropylene	500,000 U	200,000 U	200,000 U	500,000 U
Cyclohexane	500,000 U	200,000 U	200,000 U	500,000 U
Dibromochloromethane	500,000 U	200,000 U	200,000 U	500,000 U
Dichlorodifluoromethane	500,000 U	200,000 U	200,000 U	500,000 U
Di-Isopropyl ether	500,000 U	200,000 U	200,000 U	500,000 U
Ethyl Acetate	500,000 U	200,000 U, 91	200,000 U	500,000 U
Ethyl Acrylate	500,000 U	200,000 U	200,000 U	500,000 U
Ethyl Ether	500,000 U	200,000 U	200,000 U	500,000 U
Ethylbenzene	171,000	89,300	116,000	166,000
Freon 113	500,000 U	200,000 U, 91	200,000 U	500,000 U
Isobutyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U
Isopropylbenzene	344,000 J	169,000 J, 39	224,000	345,000 J
m,p-Xylene	1,800,000	1,030,000	1,270,000	1,570,000
Methacrylonitrile	1,000,000 U	400,000 U	400,000 U	1,000,000 U
Methyl Acetate	500,000 U	200,000 U	200,000 U	500,000 U
Methyl Cyclohexane	500,000 U	200,000 U	215,000	500,000 U
Methyl methacrylate	1,000,000 U	400,000 U	400,000 U	1,000,000 U
Methyl Ter. Butyl Ether	100,000 U	40,000 U	40,000 U	100,000 U
Methylene Chloride	500,000 U	200,000 U	200,000 U	500,000 U
n-Butyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U
n-Propyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U
o-Xylene	432,000	250,000	334,000	395,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IMO2HCOG 02_04262010 4/26/2010 SL ug/kg	IMO2VR0H 01_04272010 4/27/2010 SL ug/kg	IMO2DUP0 01_04272010 4/27/2010 SL ug/kg	IMO2VROI 01_04232010 4/23/2010 SL ug/kg
VOCs				
sec-Butyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U
Styrene	500,000 U	200,000 U	200,000 U	500,000 U
Tert Butyl Alcohol	2,500,000 U	1,000,000 U	1,000,000 U	2,500,000 U
Tetrachloroethene	500,000 U	200,000 U	200,000 U	500,000 U
Tetrahydrofuran	1,000,000 U	400,000 U	400,000 U	1,000,000 U
Toluene	11,300,000	5,530,000	6,360,000	10,900,000
trans-1,2-Dichloroethene	500,000 U	200,000 U	200,000 U	500,000 U
trans-1,3-Dichloropropene	500,000 U	200,000 U	200,000 U	500,000 U
Trichloroethene	500,000 U	200,000 U	200,000 U	500,000 U
Trichlorofluoromethane	500,000 U	200,000 U, 91	200,000 U	500,000 U
Vinyl Acetate	1,000,000 U	400,000 U	400,000 U	1,000,000 U
Vinyl Chloride	500,000 U	200,000 U	200,000 U	500,000 U
Xylene (Total)	2,230,000	1,280,000	1,600,000	1,970,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

39=The reported concentration is

quantitative qualified because the

concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02HCOI 02_04232010 4/23/2010 SL ug/kg	IM02VROJ 01_04232010 4/23/2010 SL ug/kg	IM02HCOJ 02_04232010 4/23/2010 SL ug/kg	IM02VROK 01_04262010 4/26/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,1,1-Trichloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,1,2,2-Tetrachloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,1,2-Trichloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,1-Dichloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,1-Dichloroethene	250,000 U	250,000 U	1,300,000 U	250,000 U
1,2,3-Trichlorobenzene	250,000 U	250,000 U	1,300,000 U	250,000 U
1,2,3-Trichloropropane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,2,4-Trichlorobenzene	250,000 U	250,000 U	1,300,000 U	250,000 U
1,2-Dibromo-3-chloropropane	500,000 U	500,000 U	2,500,000 U	500,000 U
1,2-Dibromoethane	50,000 U	50,000 U	250,000 U	50,000 U
1,2-Dichlorobenzene	1,570,000	1,570,000	2,450,000	2,100,000
1,2-Dichloroethane	50,000 U	50,000 U	250,000 U	50,000 U
1,2-Dichloropropane	250,000 U	250,000 U	1,300,000 U	250,000 U
1,3,5-Trimethylbenzene	224,000 J	209,000 J	304,000 J	248,000 J
1,3-Dichlorobenzene	25,400 J	25,800 J	1,300,000 U	33,300 J
1,3-Dichloropropene (total)	250,000 U	250,000 U	1,300,000 U	250,000 U
1,4-Dichlorobenzene	134,000 J	125,000 J	233,000 J	182,000 J
1,4-Dioxane	6,300,000 U	6,300,000 U	31,000,000 U	6,300,000 U
2-Butanone	500,000 U	500,000 U	2,500,000 U	500,000 U
2-Hexanone	250,000 U	250,000 U	1,300,000 U	250,000 U
2-Nitropropane	500,000 U	500,000 U	2,500,000 U	500,000 U
4-Methyl-2-pentanone	250,000 U	250,000 U	1,300,000 U	250,000 U
Acetone	500,000 U	500,000 U	2,500,000 U	500,000 U
Acetonitrile	5,000,000 U	5,000,000 U	25,000,000 U	5,000,000 U
Acrolein	2,500,000 U	2,500,000 U	13,000,000 U	2,500,000 U
Acrylonitrile	2,500,000 U	2,500,000 U	13,000,000 U	2,500,000 U
Aillyl chloride	250,000 U	250,000 U	1,300,000 U	250,000 U
Benzene	27,000,000	24,400,000	100,000,000	27,500,000
Bromochloromethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Bromodichloromethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Bromoform	250,000 U	250,000 U	1,300,000 U	250,000 U
Bromomethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Carbon Disulfide	73,200 J	58,500 J	283,000 J	60,700 J
Carbon Tetrachloride	250,000 U	250,000 U	1,300,000 U	250,000 U
Chlorobenzene	250,000 U	250,000 U	1,300,000 U	250,000 U
Chloroethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Chloroform	250,000 U	250,000 U	1,300,000 U	250,000 U
Chloromethane	250,000 U	250,000 U	1,300,000 U	48,400 J
Chloroprene	250,000 U	250,000 U	1,300,000 U	250,000 U
cis-1,2-Dichloroethene	250,000 U	250,000 U	1,300,000 U	250,000 U
cis-1,3-Dichloropropylene	250,000 U	250,000 U	1,300,000 U	250,000 U
Cyclohexane	250,000 U	250,000 U	1,300,000 U	250,000 U
Dibromochloromethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Dichlorodifluoromethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Di-Isopropyl ether	250,000 U	250,000 U	1,300,000 U	250,000 U
Ethyl Acetate	250,000 U	250,000 U	1,300,000 U	250,000 U
Ethyl Acrylate	250,000 U	250,000 U	1,300,000 U	250,000 U
Ethyl Ether	250,000 U	250,000 U	1,300,000 U	250,000 U
Ethylbenzene	116,000	118,000	323,000	129,000
Freon 113	250,000 U	250,000 U	1,300,000 U	250,000 U
Isobutyl Alcohol	5,000 U	2,100 U	2,000 U	100,000 U
Isopropylbenzene	251,000	276,000	772,000 J	258,000
m,p-Xylene	1,140,000	1,200,000	2,940,000	1,320,000
Methacrylonitrile	500,000 U	500,000 U	2,500,000 U	500,000 U
Methyl Acetate	250,000 U	250,000 U	1,300,000 U	250,000 U
Methyl Cyclohexane	250,000 U	250,000 U	1,300,000 U	250,000 U
Methyl methacrylate	500,000 U	500,000 U	2,500,000 U	500,000 U
Methyl Ter. Butyl Ether	50,000 U	50,000 U	250,000 U	50,000 U
Methylene Chloride	250,000 U	250,000 U	1,300,000 U	250,000 U
n-Butyl Alcohol	5,000 U	2,100 U	2,000 U	100,000 U
n-Propyl Alcohol	5,000 U	2,100 U	2,000 U	100,000 U
o-Xylene	304,000	311,000	670,000	339,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02HCOI 02_04232010 4/23/2010 SL ug/kg	IM02VROJ 01_04232010 4/23/2010 SL ug/kg	IM02HCOJ 02_04232010 4/23/2010 SL ug/kg	IM02VROK 01_04262010 4/26/2010 SL ug/kg
VOCs				
sec-Butyl Alcohol	5,000 U	2,100 U	2,000 U	100,000 U
Styrene	250,000 U	250,000 U	1,300,000 U	250,000 U
Tert Butyl Alcohol	1,300,000 U	1,300,000 U	6,300,000 U	1,300,000 U
Tetrachloroethene	250,000 U	250,000 U	1,300,000 U	250,000 U
Tetrahydrofuran	500,000 U	500,000 U	2,500,000 U	500,000 U
Toluene	6,620,000	6,870,000	22,900,000	7,030,000
trans-1,2-Dichloroethene	250,000 U	250,000 U	1,300,000 U	250,000 U
trans-1,3-Dichloropropene	250,000 U	250,000 U	1,300,000 U	250,000 U
Trichloroethene	250,000 U	250,000 U	1,300,000 U	250,000 U
Trichlorofluoromethane	250,000 U	250,000 U	1,300,000 U	250,000 U
Vinyl Acetate	500,000 U	500,000 U	2,500,000 U	500,000 U
Vinyl Chloride	250,000 U	250,000 U	1,300,000 U	250,000 U
Xylene (Total)	1,450,000	1,510,000	3,610,000	1,660,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

39=The reported concentration is

quantitative qualified because the

concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02HC0K 02_04262010 4/26/2010 SL ug/kg	IM02HCOL 02_04272010 4/27/2010 SL ug/kg	IM02VR0M 01_04292010 4/29/2010 SL ug/kg	IM02HCOM 02_04292010 4/29/2010 SL ug/kg
VOCs				
1,1,1,2-Tetrachloroethane	500,000 U	250,000 U	130,000 U	200,000 U
1,1,1-Trichloroethane	500,000 U	250,000 UJ, 91	130,000 U	200,000 U
1,1,2,2-Tetrachloroethane	500,000 U	250,000 U	130,000 U	200,000 U
1,1,2-Trichloroethane	500,000 U	250,000 U	130,000 U	200,000 U
1,1-Dichloroethane	500,000 U	250,000 U	130,000 U	200,000 U
1,1-Dichloroethene	500,000 U	250,000 U	130,000 U	200,000 U
1,2,3-Trichlorobenzene	500,000 U	250,000 U	130,000 U	200,000 U
1,2,3-Trichloropropane	500,000 U	250,000 U	130,000 U	200,000 U
1,2,4-Trichlorobenzene	500,000 U	250,000 U	130,000 U	200,000 U
1,2-Dibromo-3-chloropropane	1,000,000 U	500,000 U	250,000 U	400,000 U
1,2-Dibromoethane	100,000 U	50,000 UJ, 91	25,000 U	40,000 U
1,2-Dichlorobenzene	1,660,000	1,220,000	1,310,000	1,470,000
1,2-Dichloroethane	100,000 U	50,000 UJ, 91	25,000 U	40,000 U
1,2-Dichloropropane	500,000 U	250,000 U	130,000 U	200,000 U
1,3,5-Trimethylbenzene	196,000 J	155,000 J, 39	179,000	171,000 J
1,3-Dichlorobenzene	30,000 J	18,200 J, 39	22,300 J	24,800 J
1,3-Dichloropropene (total)	500,000 U	250,000 U	130,000 U	200,000 U
1,4-Dichlorobenzene	138,000 J	105,000 J, 39	114,000 J	127,000 J
1,4-Dioxane	13,000,000 U	6,300,000 U	3,100,000 U	5,000,000 U
2-Butanone	1,000,000 U	500,000 U	250,000 U	400,000 U
2-Hexanone	500,000 U	250,000 U	130,000 U	200,000 U
2-Nitropropane	1,000,000 U	500,000 UJ, 91	250,000 U	400,000 U
4-Methyl-2-pentanone	500,000 U	250,000 U	130,000 U	200,000 U
Acetone	1,000,000 U	500,000 U	250,000 U	400,000 U
Acetonitrile	10,000,000 U	5,000,000 UJ, 91	2,500,000 U	4,000,000 U
Acrolein	5,000,000 U	2,500,000 U	1,300,000 U	2,000,000 U
Acrylonitrile	5,000,000 U	2,500,000 U	1,300,000 U	2,000,000 U
Aillyl chloride	500,000 U	250,000 U	130,000 U	200,000 U
Benzene	52,500,000	30,400,000	16,700,000	19,500,000
Bromochloromethane	500,000 U	250,000 U	130,000 U	200,000 U
Bromodichloromethane	500,000 U	250,000 U	130,000 U	200,000 U
Bromoform	500,000 U	250,000 U	130,000 U	200,000 U
Bromomethane	500,000 U	250,000 U	130,000 U	200,000 U
Carbon Disulfide	108,000 J	47,600 J, 39	40,400 J	56,800 J
Carbon Tetrachloride	500,000 U	250,000 UJ, 91	130,000 U	200,000 U
Chlorobenzene	500,000 U	250,000 U	130,000 U	200,000 U
Chloroethane	500,000 U	250,000 U	130,000 U	200,000 U
Chloroform	500,000 U	250,000 U	130,000 U	200,000 U
Chloromethane	153,000 J	250,000 U	130,000 U	200,000 U
Chloroprene	500,000 U	250,000 U	130,000 U	200,000 U
cis-1,2-Dichloroethene	500,000 U	250,000 U	130,000 U	200,000 U
cis-1,3-Dichloropropylene	500,000 U	250,000 U	130,000 U	200,000 U
Cyclohexane	500,000 U	250,000 U	130,000 U	200,000 U
Dibromochloromethane	500,000 U	250,000 U	130,000 U	200,000 U
Dichlorodifluoromethane	500,000 U	250,000 U	130,000 U	200,000 U
Di-Isopropyl ether	500,000 U	250,000 U	130,000 U	200,000 U
Ethyl Acetate	500,000 U	250,000 UJ, 91	130,000 U	200,000 U
Ethyl Acrylate	500,000 U	250,000 U	130,000 U	200,000 U
Ethyl Ether	500,000 U	250,000 U	130,000 U	200,000 U
Ethylbenzene	155,000	121,000	74,600	84,300
Freon 113	500,000 U	250,000 UJ, 91	130,000 U	200,000 U
Isobutyl Alcohol	100,000 U	100,000 U	98,000 U	98,000 U
Isopropylbenzene	376,000 J	228,000 J, 39	163,000	174,000 J
m,p-Xylene	1,460,000	1,210,000	758,000	853,000
Methacrylonitrile	1,000,000 U	500,000 U	250,000 U	400,000 U
Methyl Acetate	500,000 U	250,000 U	130,000 U	200,000 U
Methyl Cyclohexane	500,000 U	266,000	130,000 U	200,000 U
Methyl methacrylate	1,000,000 U	500,000 U	250,000 U	400,000 U
Methyl Tert Butyl Ether	100,000 U	50,000 U	25,000 U	40,000 U
Methylene Chloride	500,000 U	250,000 U	130,000 U	200,000 U
n-Butyl Alcohol	100,000 U	100,000 U	98,000 U	98,000 U
n-Propyl Alcohol	100,000 U	100,000 U	98,000 U	98,000 U
o-Xylene	356,000	307,000	213,000	221,000

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID	IM02HCOK 02_04262010	IM02HCOL 02_04272010	IM02VR0M 01_04292010	IM02HCOM 02_04292010
Sample Date	4/26/2010	4/27/2010	4/29/2010	4/29/2010
Sample Matrix	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg
VOCs				
sec-Butyl Alcohol	100,000 U	100,000 U	98,000 U	98,000 U
Styrene	500,000 U	250,000 U	130,000 U	200,000 U
Tert Butyl Alcohol	2,500,000 U	1,300,000 U	630,000 U	1,000,000 U
Tetrachloroethene	500,000 U	250,000 U	130,000 U	200,000 U
Tetrahydrofuran	1,000,000 U	500,000 U	250,000 U	400,000 U
Toluene	10,700,000	7,190,000	3,930,000	4,870,000
trans-1,2-Dichloroethene	500,000 U	250,000 U	130,000 U	200,000 U
trans-1,3-Dichloropropene	500,000 U	250,000 U	130,000 U	200,000 U
Trichloroethene	500,000 U	250,000 U	130,000 U	200,000 U
Trichlorofluoromethane	500,000 U	250,000 U, 91	130,000 U	200,000 U
Vinyl Acetate	1,000,000 U	500,000 U	250,000 U	400,000 U
Vinyl Chloride	500,000 U	250,000 U	130,000 U	200,000 U
Xylene (Total)	1,820,000	1,520,000	970,000	1,070,000

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

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39=The reported concentration is

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concentration is below the CRQL.

91=Results are qualified due to

calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VRON 01_04232010 4/23/2010 SL ug/kg	IM02HC0N 02_04232010 4/23/2010 SL ug/kg	IM02HCOO 02_04272010 4/27/2010 SL ug/kg	Minimum	Maximum	Mean
VOCs						
1,1,1,2-Tetrachloroethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,1,1-Trichloroethane	250,000 U	250,000 U	500,000 UJ, 91	770	13,000,000	709,209
1,1,2,2-Tetrachloroethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,1,2-Trichloroethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,1-Dichloroethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,1-Dichloroethene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,2,3-Trichlorobenzene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,2,3-Trichloropropane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,2,4-Trichlorobenzene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,2-Dibromo-3-chloropropane	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
1,2-Dibromoethane	50,000 U	50,000 U	100,000 U	150	2,500,000	140,476
1,2-Dichlorobenzene	2,240,000	1,420,000	716,000	3,390	13,000,000	1,445,383
1,2-Dichloroethane	50,000 U	50,000 U	100,000 UJ, 91	150	2,500,000	140,476
1,2-Dichloropropane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,3,5-Trimethylbenzene	323,000	195,000 J	102,000 J, 39	1,550	13,000,000	543,811
1,3-Dichlorobenzene	34,500 J	27,300 J	500,000 U	153	13,000,000	621,741
1,3-Dichloropropene (total)	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
1,4-Dichlorobenzene	190,000 J	131,000 J	70,200 J, 39	197	13,000,000	472,688
1,4-Dioxane	6,300,000 U	6,300,000 U	13,000,000 U	19,000	310,000,000	17,510,818
2-Butanone	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
2-Hexanone	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
2-Nitropropane	500,000 U	500,000 U	1,000,000 UJ, 91	1,500	25,000,000	1,404,760
4-Methyl-2-pentanone	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Acetone	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,409,869
Acetonitrile	5,000,000 U	5,000,000 U	10,000,000 UJ, 91	15,000	250,000,000	14,047,600
Acrolein	2,500,000 U	2,500,000 U	5,000,000 U	7,700	130,000,000	7,092,085
Acrylonitrile	2,500,000 U	2,500,000 U	5,000,000 U	7,700	130,000,000	7,092,085
Ailly chloride	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Benzene	34,200,000	19,000,000	50,700,000	78,500	207,000,000	48,716,356
Bromochloromethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Bromodichloromethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Bromoform	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Bromomethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Carbon Disulfide	61,200 J	48,900 J	88,700 J, 39	100	13,000,000	429,025
Carbon Tetrachloride	250,000 U	250,000 U	500,000 UJ, 91	770	13,000,000	709,209
Chlorobenzene	250,000 U	250,000 U	500,000 U	233	13,000,000	686,005
Chloroethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Chloroform	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Chloromethane	250,000 U	250,000 U	289,000 J, 39	770	13,000,000	646,165
Chloroprene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
cis-1,2-Dichloroethene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
cis-1,3-Dichloropropylene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Cyclohexane	250,000 U	250,000 U	500,000 U	1,100	13,000,000	697,032
Dibromochloromethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Dichlorodifluoromethane	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Di-Isopropyl ether	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Ethyl Acetate	250,000 U	250,000 U	500,000 UJ, 91	770	13,000,000	709,209
Ethyl Acrylate	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Ethyl Ether	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Ethylbenzene	139,000	91,400	118,000	763	2,500,000	216,133
Freon 113	250,000 U	250,000 U	500,000 UJ, 91	770	13,000,000	709,209
Isobutyl Alcohol	5,000 U	5,000 U	10,000 U	2,000	270,000	91,816
Isopropylbenzene	308,000	189,000 J	172,000 J, 39	2,360	13,000,000	686,736
m,p-Xylene	1,450,000	921,000	1,350,000	439	5,660,000	1,912,417
Methacrylonitrile	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
Methyl Acetate	250,000 U	250,000 U	500,000 U	770	13,000,000	785,336
Methyl Cyclohexane	250,000 U	250,000 U	500,000 U	2,400	13,000,000	714,776
Methyl methacrylate	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
Methyl Ter. Butyl Ether	50,000 U	50,000 U	100,000 U	150	2,500,000	140,476
Methylene Chloride	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
n-Butyl Alcohol	5,000 U	5,000 U	100,000 U	2,000	270,000	91,816
n-Propyl Alcohol	5,000 U	5,000 U	100,000 U	2,000	270,000	91,816
o-Xylene	387,000	241,000	257,000	1,820	2,500,000	492,485

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 3
VOC Sludge Data

Sample ID Sample Date Sample Matrix Units	IM02VRON 01_04232010 4/23/2010 SL ug/kg	IM02HC0N 02_04232010 4/23/2010 SL ug/kg	IM02HCOO 02_04272010 4/27/2010 SL ug/kg	Minimum	Maximum	Mean
VOCs						
sec-Butyl Alcohol	5,000 U	5,000 U	100,000 U	2,000	270,000	91,816
Styrene	250,000 U	250,000 U	500,000 U	770	13,000,000	699,450
Tert Butyl Alcohol	1,300,000 U	1,300,000 U	2,500,000 U	3,800	63,000,000	3,522,815
Tetrachloroethene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Tetrahydrofuran	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
Toluene	7,110,000	4,940,000	9,240,000	1,440	40,700,000	11,351,166
trans-1,2-Dichloroethene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
trans-1,3-Dichloropropene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Trichloroethene	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Trichlorofluoromethane	250,000 U	250,000 U	500,000 UJ, 91	770	13,000,000	709,209
Vinyl Acetate	500,000 U	500,000 U	1,000,000 U	1,500	25,000,000	1,404,760
Vinyl Chloride	250,000 U	250,000 U	500,000 U	770	13,000,000	709,209
Xylene (Total)	1,840,000	1,160,000	1,610,000	4,500	6,950,000	2,359,139

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.

91=Results are qualified due to calibration excursions

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01VR0A_01_04302010	IM01HCOA_02_04302010	IM01CAOP_01_05052010	IM01HC0B_02_05052010	IM01VR0C_01_04302010
Sample Date	4/30/2010	4/30/2010	5/5/2010	5/5/2010	4/30/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	147	1,560	29,300	38,500	18,000
1,2,4,5-Tetrachlorobenzene	140 U	140 U	3,000 U	3,100 U	3,600 U
1,2-Dichlorobenzene	9,940	23,800 J	971,000	750,000	412,000
1,2-Diphenylhydrazine	57 U	57 U	1,200 U	1,300 U	1,400 U
1,4-Dichlorobenzene	489 J	50,000 U	57,000 J	600,000 U	23,600 J
1,4-Naphthoquinone	140 U	140 U	3,000 U	3,100 U	3,600 U
1-Chloro-2-nitrobenzene	57 U	57 U	1,200 U	1,300 U	1,400 U
2,3,4,6-Tetrachlorophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
2,4,5-Trichlorophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
2,4,6-Trichlorophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
2,4-Dichlorophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
2,4-Dimethylphenol	140 U	1,380	10,000	22,300	5,490
2,4-Dinitrophenol	570 U	570 U	12,000 U	13,000 U	14,000 U
2,4-Dinitrotoluene	57 U	57 U	1,200 U	1,300 U	1,400 U
2,6-Dinitrohexane	57 U	57 U	1,200 U	1,300 U	1,400 U
2-Acetylaminofluorene	140 U	140 U	3,000 U	3,100 U	3,600 U
2-Chloroaniline	140 U	140 U	3,000 U	3,100 U	3,600 U
2-Chloronaphthalene	81.1	996	26,600	33,600	15,300
2-Chlorophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
2-Methylnaphthalene	506	10,500	205,000	240,000	129,000
2-Methylphenol	57 U	271	1,200 U	5,870	1,400 U
2-Nitroaniline	140 U	140 U	3,000 U	3,100 U	3,600 U
2-Nitrophenol	140 U	140 U	3,000 U	3,100 U	3,600 U
3 & 4-Methylphenol	57 U	846	1,200 U	34,200	9,410
3,3'-Dichlorobenzidine	140 U	140 U	3,000 U	3,100 U	3,600 U
3-Nitroaniline	140 U	140 U	3,000 U	3,100 U	3,600 U
4,6-Dinitro-2-Methylphenol	570 U	570 U	12,000 U	13,000 U	14,000 U
4-Aminobiphenyl	140 U	140 U	3,000 U	3,100 U	3,600 U
4-Bromophenyl Phenyl Ether	57 U	57 U	1,200 U	1,300 U	1,400 U
4-chloro-3-Methyl Phenol	140 U	140 U	3,000 U	3,100 U	3,600 U
4-Chloroaniline	140 U	140 U	3,000 U	3,100 U	3,600 U
4-Chlorophenyl Phenyl Ether	57 U	57 U	1,200 U	1,300 U	1,400 U
4-Nitroaniline	140 U	140 U	3,000 U	3,100 U	3,600 U
4-Nitrophenol	280 U	280 U	6,000 U	6,300 UJ, 91	7,100 U
Acenaphthene	28 U	793	12,000	17,600	11,700
Acenaphthylene	28 U	28 U	600 U	630 U	710 U
Acetophenone	94.3 J	39,400	434,000	462,000	113,000
Acrylonitrile	20,000 U	500,000 U	5,600,000 U	6,000,000 U	1,300,000 U
Aniline	189	7,960	1,180,000	1,070,000	230,000
Anthracene	28 U	28 U	600 U	630 U	710 U
Atrazine	140 U	140 U	3,000 U	3,100 U	3,600 U
Benzaldehyde	140 U	140 U	3,000 U	3,100 U	3,600 U
Benzidine	570 U	570 U	12,000 U	13,000 U	14,000 U
Benzo(a)Anthracene	89.1	141	3,040	9,030	710 U
Benzo(a)Pyrene	47.6	322	600 U	2,180	710 U
Benzo(b)Fluoranthene.	54.1	28 U	600 U	18,900	710 U
Benzo(g,h,i)Perylene	28.2	28 U	600 U	4,040	710 U
Benzo(k)Fluoranthene	87.7	28 U	600 U	2,810	710 U
Benzoic acid	570 U	20,700	12,000 U	437,000	34,000
Benzyl Alcohol	57 U	57 U	1,200 U	1,300 U	1,400 U
bis(2-Chloroethoxy)Methane	57 U	57 U	1,200 U	1,300 U	1,400 U
bis(2-Chloroethyl)Ether	57 U	57 U	1,200 U	1,300 U	1,400 U
bis(2-Chloroisopropyl)Ether	57 U	57 U	1,200 U	1,300 U	1,400 U
bis(2-Ethylhexyl)Adipate	57 U	57 U	12,000	1,300 U	157,000
bis(2-Ethylhexyl)Phthalate	58.9	57 U	1,200 U	1,300 U	1,400 U
Butyl Benzyl Phthalate	57 U	57 U	1,200 U	1,300 U	1,400 U
Caprolactam	57 U	57 U	1,200 U	1,300 U	1,400 U
Carbazole	57 U	57 U	1,200 U	1,300 U	1,400 U
Catechol	280 U	280 U	6,000 U	6,300 U	7,100 U
Chlorobenzilate	140 U	140 U	3,000 U	3,100 U	3,600 U
Chrysene	78.9	154	3,390	8,680	710 U
Dibenz(o,h)Anthracene	28 U	28 U	600 U	630 U	710 U
Dibenzofuran	184	1,560	27,400	39,400	14,200
Diethyl Phthalate	57 U	57 U	1,200 U	1,300 U	1,400 U
Dimethyl Phthalate	57 U	57 U	1,200 U	1,300 U	11,600
di-n-Butyl Phthalate	57 U	57 U	1,200 U	1,300 U	1,400 U
di-n-Octyl Phthalate	57 U	57 U	1,200 U	1,300 U	1,400 U
Diphenylamine	140 U	140 U	3,000 U	3,100 U	3,600 U
Fluoranthene	315	775	10,600	14,500	5,670
Fluorene	28 U	28 U	600 U	630 U	710 U
Hexachlorobenzene	57 U	57 U	1,200 U	1,300 U	1,400 U
Hexachlorobutadiene	28 U	28 U	600 U	630 U	710 U
Hexachlorocyclopentadiene	570 U	570 U	12,000 U	13,000 U	14,000 U
Hexachloroethane	140 U	140 U	3,000 U	3,100 U	3,600 U
Hydroquinone	280 U	280 U	6,000 U	6,300 U	7,100 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01VR0A 01_04302010	IM01HCOA 02_04302010	IM01CAOP 01_05052010	IM01HC0B 02_05052010	IM01VR0C 01_04302010
Sample Date	4/30/2010	4/30/2010	5/5/2010	5/5/2010	4/30/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	29	28 U	600 U	3,500	710 U
Isophorone	57 U	57 U	1,200 U	1,300 U	1,400 U
<i>Isopropyl Alcohol</i>	2,000 U	2,000 U	190,000 U	190,000 U	100,000 U
Methylcyclohexane	2,400	50,000 U	560,000 U	600,000 U	130,000 U
Naphthalene	<i>6,010</i>	192,000	4,020,000	4,330,000	2,610,000
Nitrobenzene	57 U	10,500	1,130,000	1,120,000	524,000
N-Nitrosodiethylamine	140 U	140 U	3,000 U	3,100 U	3,600 U
n-Nitrosodimethylamine	57 U	57 U	1,200 U	1,300 U	1,400 U
N-Nitrosodi-n-butylamine	140 U	140 U	3,000 U	3,100 U	3,600 U
n-Nitroso-di-n-Propylamine	57 U	57 U	1,200 U	1,300 U	1,400 U
n-Nitrosodiphenylamine	140 U	140 U	3,000 U	3,100 U	3,600 U
N-Nitrosomethylamine	140 U	140 U	3,000 U	3,100 UJ, 91	3,600 U
N-Nitrosomorpholine	140 U	140 U	3,000 U	3,100 UJ, 91	3,600 U
N-Nitrosopiperidine	140 U	140 U	3,000 U	3,100 UJ, 91	3,600 U
N-Nitrosopyrrolidine	140 U	140 U	3,000 U	3,100 UJ, 91	3,600 U
o-Toluidine	140 U	140 U	3,000 U	3,100 U	3,600 U
p-(Dimethylamine)azobenzene	140 U	140 U	3,000 U	3,100 U	3,600 U
Pentachlorobenzene	140 U	140 U	3,000 U	3,100 U	3,600 U
Pentachlorophenol	280 U	280 U	6,000 U	6,300 U	7,100 U
Phenanthrene	797	28 U	600 U	14,400	710 U
Phenol	919	<i>5,470</i>	1,200 U	1,300 U	8,180
Pyrene	186	307	5,610	16,400	1,060
Salicylic acid	2,800 U	2,800 U	60,000 U	63,000 U	71,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due

field duplicate excursions.

35A=Result was qualified due to a

holding time excursion

89 = Detected organic results

are qualified due to zero matrix

spike/matrix spike duplicate

recoveries.

89A=Organic results are qualified

due to matrix spike/matrix spike

duplicate precision excursions.

50=One internal standard area in

the sample did not meet the QC

criteria. Therefore, all

compound results using this

internal standard for quantitation

are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01VR0D_01_05052010	IM01CA0Q_01_05042010	IM01HC0E_02_05042010	IM01VROF_01_05042010	IM01HC0F_02_05042010
Sample Date	5/5/2010	5/4/2010	5/4/2010	5/4/2010	5/4/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
1,1'-Biphenyl	5,740 J, 89A	74,100	73,900	5,510	6,140
1,2,4,5-Tetrachlorobenzene	460 U	9,600 U	8,700 U	1,200 U	1,700 U
1,2-Dichlorobenzene	45,100	1,280,000	1,130,000	227,000	348,000 J
1,2-Diphenylhydrazine	180 U	3,800 U	11,800	490 U	680 U
1,4-Dichlorobenzene	3,820 J	87,000 J	1,000,000 U	12,200 J	1,500,000 U
1,4-Naphthoquinone	460 U	9,600 U	8,700 U	1,200 U	1,700 U
1-Chloro-2-nitrobenzene	180 U	3,800 U	3,500 U	490 U	680 U
2,3,4,6-Tetrachlorophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2,4,5-Trichlorophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2,4,6-Trichlorophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2,4-Dichlorophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2,4-Dimethylphenol	367 J, 39	26,200	18,100	3,210	3,390
2,4-Dinitrophenol	1,800 U	38,000 U	35,000 U	4,900 U	6,800 U
2,4-Dinitrotoluene	180 U	3,800 U	3,500 U	490 U	680 U
2,6-Dinitrotoluene	180 U	3,800 U	3,500 U	490 U	680 U
2-Acetylaminofluorene	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2-Chloroaniline	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2-Choronaphthalene	722	8,690	8,050	3,890	2,910
2-Chlorophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2-Methylnaphthalene	16,600 J, 89A	341,000	368,000	23,500	28,000
2-Methylphenol	180 U	17,400	16,900	1,890	680 U
2-Nitroaniline	460 U	9,600 U	8,700 U	1,200 U	1,700 U
2-Nitropophenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
3 & 4-Methylphenol	381	76,100	56,000	9,180	10,300
3,3'-Dichlorobenzidine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
3-Nitroaniline	460 U	9,600 U	8,700 U	1,200 U	1,700 U
4,6-Dinitro-2-Methylphenol	1,800 U	38,000 U	35,000 U	4,900 U	6,800 U
4-Aminobiphenyl	460 U	9,600 U	8,700 U	1,200 U	1,700 U
4-Bromophenyl Phenyl Ether	180 U	3,800 U	3,500 U	490 U	680 U
4-chloro-3-Methyl Phenol	460 U	9,600 U	8,700 U	1,200 U	1,700 U
4-Chloroaniline	460 U	9,600 U	8,700 U	1,200 U	1,700 U
4-Chlorophenyl Phenyl Ether	180 U	3,800 U	3,500 U	490 U	680 U
4-Nitroaniline	460 U	9,600 U	8,700 U	1,200 U	1,700 U
4-Nitrophenol	910 U, 91	19,000 U	17,000 U	2,500 U	3,400 U
Acenaphthene	6,260 J, 89A	1,900 U	1,700 U	250 U	340 U
Acenaphthylene	8,370 J, 89A	1,900 U	1,700 U	250 U	340 U
Acetophenone	2,850	338,000	276,000	13,800	66,800
Acrylonitrile	160,000 U	6,300,000 U	10,000,000 U	210,000 U	15,000,000 U
Aniline	4,300 J, 89	1,320,000	1,580,000	23,000	118,000
Anthracene	19,800 J, 89A	1,900 U	1,700 U	250 U	2,220
Atrazine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Benzaldehyde	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Benzidine	1,800 U	38,000 U	35,000 U	5,400	6,800 U
Benzo(a)Anthracene	22,900 J, 89A	1,900 U	6,430	250 U	340 U
Benzo(a)Pyrene	19,300 J, 89A	1,900 U	1,700 U	250 U	340 U
Benzo(b)Fluoranthene.	15,000 J, 89A	1,900 U	1,700 U	250 U	340 U
Benzo(g,h,i)Perylene	10,800 J, 89A	1,900 U	1,700 U	250 U	340 U
Benzo(k)Fluoranthene	12,900 J, 89A	1,900 U	1,700 U	250 U	340 U
Benzoic acid	1,800 U	38,000 U	84,700	4,900 U	123,000
Benzyl Alcohol	180 U	3,800 U	3,500 U	490 U	680 U
bis(2-Chloroethoxy)Methane	180 U	3,800 U	3,500 U	490 U	680 U
bis(2-Chloroethyl)Ether	180 U	3,800 U	3,500 U	490 U	680 U
bis(2-Chloroisopropyl)Ether	180 U	3,800 U	3,500 U	490 U	680 U
bis(2-Ethylhexyl)Adipate	180 U	3,800 U	3,500 U	490 U	26,400
bis(2-Ethylhexyl)Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
Butyl Benzyl Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
Caprolactam	180 U	3,800 U	3,500 U	490 U	680 U
Carbazole	7,270 J, 89A	3,800 U	3,500 U	490 U	680 U
Catechol	910 U	19,000 U	17,000 U	2,500 U	3,400 U
Chlorobenzilate	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Chrysene	20,500 J, 89A	1,900 U	6,430	250 U	340 U
Dibenzo(a,h)Anthracene	5,550 J, 89A	1,900 U	1,700 U	250 U	340 U
Dibenzofuran	16,100 J, 89A	54,200	56,500	4,090	4,450
Diethyl Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
Dimethyl Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
di-n-Butyl Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
di-n-Octyl Phthalate	180 U	3,800 U	3,500 U	490 U	680 U
Diphenylamine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Fluoranthene	69,800 J, 89A	8,200	8,800	799	836
Fluorene	35,300 J, 89A	1,900 U	1,700 U	250 U	340 U
Hexachlorobenzene	180 U	3,800 U	3,500 U	490 U	680 U
Hexachlorobutadiene	91 U	1,900 U	1,700 U	250 U	340 U
Hexachlorocyclopentadiene	1,800 U	38,000 U	35,000 U	4,900 U	6,800 U
Hexachloroethane	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Hydroquinone	910 U	19,000 U	17,000 U	2,500 U	3,400 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01VR0D 01_05052010	IM01CA0Q 01_05042010	IM01HC0E 02_05042010	IM01VROF 01_05042010	IM01HC0F 02_05042010
Sample Date	5/5/2010	5/4/2010	5/4/2010	5/4/2010	5/4/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	11,100 J, 89A	1,900 U	1,700 U	250 U	340 U
Isophorone	180 U	3,800 U	3,500 U	490 U	680 U
Isopropyl Alcohol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U
Methylcyclohexane	18,000	630,000 U	1,000,000 U	22,900	1,500,000 U
Naphthalene	116,000 J, 89A	6,620,000	6,640,000	485,000	730,000
Nitrobenzene	2,940 J, 89A	1,730,000	928,000	490 U	63,600
N-Nitrosodiethylamine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
n-Nitrosodimethylamine	180 U	3,800 U	3,500 U	490 U	680 U
N-Nitrosodi-n-butylamine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
n-Nitroso-di-n-Propylamine	180 U	3,800 U	3,500 U	490 U	680 U
n-Nitrosodiphenylamine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
N-Nitrosomethylamine	460 UJ, 91	9,600 U	8,700 U	1,200 U	1,700 U
N-Nitrosomorpholine	460 UJ, 91	9,600 U	8,700 U	1,200 U	1,700 U
N-Nitrosopiperidine	460 UJ, 91	9,600 U	8,700 U	1,200 U	1,700 U
N-Nitrosopyrrolidine	460 UJ, 91	9,600 U	8,700 U	1,200 U	1,700 U
o-Toluidine	460 U	9,600 U	8,700 U	1,200 U	1,700 U
p-(Dimethylamine)azobenzene	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Pentachlorobenzene	460 U	9,600 U	8,700 U	1,200 U	1,700 U
Pentachlorophenol	910 U	19,000 U	17,000 U	2,500 U	3,400 U
Phenanthrene	108,000 J, 89A	48,800	63,400	3,640	3,600
Phenol	180 U	3,800 U	3,500 U	490 U	680 U
Pyrene	54,700 J, 89A	9,750	13,800	250 U	340 U
Salicylic acid	9,100 U	190,000 U	170,000 U	25,000 U	34,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due field duplicate excursions.

35A=Result was qualified due to a holding time excursion

89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01CA0R 01_05032010	IM01DUPO 01_05032010	IM01HCOG 01_05032010	IM01VR0H 01_04302010	IM01CA0S 01_05052010
Sample Date	5/3/2010	5/3/2010	5/3/2010	4/30/2010	5/5/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	480 U	977	21,000	26,100	25,800
1,2,4,5-Tetrachlorobenzene	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
1,2-Dichlorobenzene	36,000	5,540 J	10,300	714,000	702,000
1,2-Diphenylhydrazine	480 U	470 U	530 U	1,400 U	1,400 U
1,4-Dichlorobenzene	1,830 J	6,500 U	681 J	41,100 J	60,300 J
1,4-Naphthoquinone	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
1-Chloro-2-nitrobenzene	480 U	470 U	530 U	1,400 U	1,400 U
2,3,4,6-Tetrachlorophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2,4,5-Trichlorophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2,4,6-Trichlorophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2,4-Dichlorophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2,4-Dimethylphenol	1,200 U	1,200 U	1,300 U	15,600	85,800
2,4-Dinitrophenol	4,800 U	4,700 U	5,300 U	14,000 U	14,000 U
2,4-Dinitrotoluene	480 U	470 U	530 U	1,400 U	1,400 U
2,6-Dinitrotoluene	480 U	470 U	530 U	1,400 U	1,400 U
2-Acetylaminofluorene	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2-Chloroaniline	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2-Chloronaphthalene	480 U	470 U	954	22,100	23,100
2-Chlorophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2-Methylnaphthalene	654	2,340	30,900	173,000	197,000
2-Methylphenol	480 U	470 U	530 U	8,220	18,000
2-Nitroaniline	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
2-Nitrophenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
3 & 4-Methylphenol	480 U	470 U	530 U	38,500	145,000
3,3'-Dichlorobenzidine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
3-Nitroaniline	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
4,6-Dinitro-2-Methylphenol	4,800 U	4,700 U	5,300 U	14,000 U	14,000 U
4-Aminobiphenyl	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
4-Bromophenyl Phenyl Ether	480 U	470 U	530 U	1,400 U	1,400 U
4-chloro-3-Methyl Phenol	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
4-Chloroaniline	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
4-Chlorophenyl Phenyl Ether	480 U	470 U	530 U	1,400 U	1,400 U
4-Nitroaniline	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
4-Nitrophenol	2,400 U	2,400 U	2,700 U	7,100 U	7,200 U
Acenaphthene	240 U	240 U	25,600	12,600	15,900
Acenaphthylene	737	3,070	40,600	710 U	720 U
Acetophenone	420 J	692 J	1,370	157,000	1,190,000
Acrylonitrile	27,000 U	65,000 U	75,000 U	1,300,000 U	6,800,000 U
Aniline	607	4,120	8,870	138,000	603,000
Anthracene	935	7,750	103,000	710 U	720 U
Atrazine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Benzaldehyde	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Benzidine	4,800 U	4,700 U	5,300 U	14,000 U	14,000 U
Benzo(a)Anthracene	2,350	8,540	87,300	689 J	720 U
Benzo(a)Pyrene	2,030	7,190	77,900	710 U	720 U
Benzo(b)Fluoranthene.	2,210	7,110	74,700	710 U	720 U
Benzo(g,h,i)Perylene	1,420	4,250	39,300	710 U	720 U
Benzo(k)Fluoranthene	1,870	5,830	49,400	710 U	720 U
Benzoic acid	890 J	4,700 U	5,300 U	331,000	646,000
Benzyl Alcohol	480 U	470 U	530 U	1,400 U	1,400 U
bis(2-Chloroethoxy)Methane	480 U	470 U	530 U	1,400 U	1,400 U
bis(2-Chloroethyl)Ether	480 U	470 U	530 U	1,400 U	1,400 U
bis(2-Chloroisopropyl)Ether	480 U	470 U	530 U	1,400 U	1,400 U
bis(2-Ethylhexyl)Adipate	384 J	470 U	530 U	1,400 U	1,400 U
bis(2-Ethylhexyl)Phthalate	480 U	470 U	530 U	1,400 U	1,400 U
Butyl Benzyl Phthalate	480 U	470 U	530 U	1,400 U	1,400 U
Caprolactam	480 U	470 U	530 U	1,400 U	1,400 U
Carbazole	243 J	3,210	46,500	1,400 U	1,400 U
Catechol	2,400 U	2,400 U	2,700 U	7,100 U	7,200 U
Chlorobenzilate	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Chrysene	2,500	9,170	86,600	1,440	720 U
Dibenz(a,h)Anthracene	452	1,360	18,200	710 U	720 U
Dibenzo furan	578	5,720	71,400	23,700	24,400
Diethyl Phthalate	480 U	470 U	530 U	1,400 U	1,400 U
Dimethyl Phthalate	480 U	470 U	530 U	1,400 U	30,600
di-n-Butyl Phthalate	480 U	470 U	530 U	1,400 U	1,400 U
di-n-Octyl Phthalate	480 U	470 U	530 U	1,400 U	1,400 U
Diphenylamine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Fluoranthene	4,490	23,500	262,000	7,160	10,300
Fluorene	128 J	8,960	101,000	710 U	720 U
Hexachlorobenzene	480 U	470 U	530 U	1,400 U	1,400 U
Hexachlorobutadiene	240 U	240 U	270 U	710 U	720 U
Hexachlorocyclopentadiene	4,800 U	4,700 U	5,300 U	14,000 U	14,000 U
Hexachloroethane	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Hydroquinone	2,400 U	2,400 U	2,700 U	7,100 U	7,200 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01CA0R 01_05032010	IM01DUP0 01_05032010	IM01HC0G 01_05032010	IM01VR0H 01_04302010	IM01CA0S 01_05052010
Sample Date	5/3/2010	5/3/2010	5/3/2010	4/30/2010	5/5/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	1,520	4,630	40,200	710 U	720 U
Isophorone	480 U	470 U	530 U	1,400 U	1,400 U
<i>Isopropyl Alcohol</i>	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
Methylcyclohexane	5,090	7,470	9,330	130,000 U	680,000 U
Naphthalene	5,010	22,800	233,000	3,330,000	4,260,000
Nitrobenzene	1,160	470 U	2,340	1,900,000	3,740,000
N-Nitrosodiethylamine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
n-Nitrosodimethylamine	480 U	470 U	530 U	1,400 U	1,400 U
N-Nitrosodi-n-butylamine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
n-Nitroso-di-n-Propylamine	480 U	470 U	530 U	1,400 U	1,400 U
n-Nitrosodiphenylamine	1,200 U	1,200 U	1,300 U	3,600 U	26,500
N-Nitrosomethylmethyamine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
N-Nitrosomorpholine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
N-Nitrosopiperidine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
N-Nitrosopyrrolidine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
o-Toluidine	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
p-(Dimethylamine)azobenzene	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Pentachlorobenzene	1,200 U	1,200 U	1,300 U	3,600 U	3,600 U
Pentachlorophenol	2,400 U	2,400 U	2,700 U	7,100 U	7,200 U
Phenanthrene	3,320	37,200	396,000	710 U	720 U
Phenol	480 U	470 U	530 U	29,200	56,600
Pyrene	3,890	18,200	188,000	1,670	2,170
Salicylic acid	24,000 U	24,000 U	27,000 U	71,000 U	72,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

90=Results are qualified due

field duplicate excursions.

35A=Result was qualified due to a

holding time excursion

89 = Detected organic results

are qualified due to zero matrix

spike/matrix spike duplicate

recoveries.

89A=Organic results are qualified

due to matrix spike/matrix spike

duplicate precision excursions.

50=One internal standard area in

the sample did not meet the QC

criteria. Therefore, all

compound results using this

internal standard for quantitation

are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01HCO1_02_05052010	IM01HCOJ_02_05042010	IM01VR0K_01_05062010	IM01HCOK_02_05062010	IM01HC0L_02_05072010
Sample Date	5/5/2010	5/4/2010	5/6/2010	5/6/2010	5/7/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	36,500	85,400	26,500	13,600	135,000
1,2,4,5-Tetrachlorobenzene	4,400 U	47,000 U	2,600 U	870 U	20,000 U
1,2-Dichlorobenzene	1,050,000 J	1,940,000 J	517,000	476,000	2,550,000
1,2-Diphenylhydrazine	1,700 U	19,000 U	1,000 U	350 U	7,800 U
1,4-Dichlorobenzene	1,700,000 U	205,000 J	32,500 J	26,500 J	157,000 J
1,4-Naphthoquinone	4,400 U	47,000 U	2,600 U	870 U	20,000 U
1-Chloro-2-nitrobenzene	1,700 U	19,000 U	1,000 U	350 U	7,800 U
2,3,4,6-Tetrachlorophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2,4,5-Trichlorophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2,4,6-Trichlorophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2,4-Dichlorophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2,4-Dimethylphenol	54,700	47,800	5,440	5,730	87,800
2,4-Dinitrophenol	17,000 U	190,000 U	10,000 U	3,500 U	78,000 U
2,4-Dinitrotoluene	1,700 U	19,000 U	1,000 U	350 U	7,800 U
2,6-Dinitrotoluene	1,700 U	19,000 U	1,000 U	350 U	7,800 U
2-Acetylaminofluorene	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2-Chloroaniline	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2-Chloronaphthalene	34,000	80,300	19,600	8,830	101,000
2-Chlorophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2-Methylnaphthalene	243,000	486,000	144,000	76,100	678,000
2-Methylphenol	20,400	25,100	1,000 U	2,500	43,400
2-Nitroaniline	4,400 U	47,000 U	2,600 U	870 U	20,000 U
2-Nitrophenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
3 & 4-Methylphenol	152,000	143,000	4,600	6,080	236,000
3,3'-Dichlorobenzidine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
3-Nitroaniline	4,400 U	47,000 U	2,600 U	870 U	20,000 U
4,6-Dinitro-2-Methylphenol	17,000 U	190,000 U	10,000 U	3,500 U	78,000 U
4-Aminobiphenyl	4,400 U	47,000 U	2,600 U	870 U	20,000 U
4-Bromophenyl Phenyl Ether	1,700 U	19,000 U	1,000 U	350 U	7,800 U
4-chloro-3-Methyl Phenol	4,400 U	47,000 U	2,600 U	870 U	20,000 U
4-Chloroaniline	4,400 U	47,000 U	2,600 U	870 U	20,000 U
4-Chlorophenyl Phenyl Ether	1,700 U	19,000 U	1,000 U	350 U	7,800 U
4-Nitroaniline	4,400 U	47,000 U	2,600 U	870 U	20,000 U
4-Nitrophenol	8,700 U, 91	94,000 U	5,200 U	1,700 U	39,000 U
Acenaphthene	16,200	9,400 U	20,000	170 U	3,900 U
Acenaphthylene	870 U	9,400 U	520 U	170 U	3,900 U
Acetophenone	1,090,000	775,000	67,200	37,100	750,000
Acrylonitrile	17,000,000 U	24,000,000 U	1,900,000 U	1,700,000 U	4,900,000 U
Aniline	942,000	6,030,000	128,000	30,100	1,570,000
Anthracene	870 U	9,400 U	520 U	170 U	3,900 U
Atrazine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Benzaldehyde	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Benzidine	17,000 U	190,000 U	10,000 U	3,500 U	78,000 U
Benzo(a)Anthracene	870 U	9,400 U	14,000	6,200	3,900 U
Benzo(a)Pyrene	870 U, 50	9,400 U	5,830	2,300	3,900 U
Benzo(b)Fluoranthene.	870 U, 50	9,400 U	18,800	7,790	3,900 U
Benzo(g,h,i)Perylene	870 U, 50	9,400 U	9,280	2,960	3,900 U
Benzo(k)Fluoranthene	870 U, 50	9,400 U	16,600	7,440	3,900 U
Benzoic acid	858,000	1,280,000	71,900	56,800	1,410,000
Benzyl Alcohol	1,700 U	19,000 U	1,000 U	350 U	7,800 U
bis(2-Chloroethoxy)Methane	1,700 U	19,000 U	1,000 U	350 U	7,800 U
bis(2-Chloroethyl)Ether	1,700 U	19,000 U	1,000 U	350 U	7,800 U
bis(2-Chloroisopropyl)Ether	1,700 U	19,000 U	1,000 U	350 U	7,800 U
bis(2-Ethylhexyl)Adipate	33,500	19,000 U	1,000 U	11,200	7,800 U
bis(2-Ethylhexyl)Phthalate	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Butyl Benzyl Phthalate	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Caprolactam	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Carbazole	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Catechol	8,700 U	94,000 U	5,200 U	1,700 U	39,000 U
Chlorobenzilate	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Chrysene	870 U	9,400 U	14,200	6,650	3,900 U
Dibenz(o,h)Anthracene	870 U, 50	9,400 U	520 U	170 U	3,900 U
Dibenzofuran	32,800	75,400	28,100	12,700	94,100
Diethyl Phthalate	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Dimethyl Phthalate	35,400	63,700	1,000 U	350 U	86,700
di-n-Butyl Phthalate	1,700 U	19,000 U	1,000 U	350 U	7,800 U
di-n-Octyl Phthalate	1,700 U, 50	19,000 U	1,000 U	350 U	7,800 U
Diphenylamine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Fluoranthene	14,800	9,400 U	11,400	6,400	16,200
Fluorene	870 U	9,400 U	520 U	170 U	3,900 U
Hexachlorobenzene	1,700 U	19,000 U	1,000 U	350 U	7,800 U
Hexachlorobutadiene	870 U	9,400 U	520 U	170 U	3,900 U
Hexachlorocyclopentadiene	17,000 U	190,000 U	10,000 U	3,500 U	78,000 U
Hexachloroethane	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Hydroquinone	8,700 U	94,000 U	5,200 U	1,700 U	39,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01HCOI 02_05052010	IM01HC0J 02_05042010	IM01VR0K 01_05062010	IM01HC0K 02_05062010	IM01HC0L 02_05072010
Sample Date	5/5/2010	5/4/2010	5/6/2010	5/6/2010	5/7/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	870 UJ, 50	9,400 U	9,770	3,380	3,900 U
Isophorone	1,700 U	19,000 U	1,000 U	350 U	7,800 U
<i>Isopropyl Alcohol</i>	260,000 U	200,000 U	160,000 U	270,000 U	170,000 U
Methylcyclohexane	1,700,000 U	2,400,000 U	190,000 U	170,000 U	490,000 U
Naphthalene	4,910,000	9,440,000	2,450,000	1,570,000	12,600,000
Nitrobenzene	3,460,000	3,320,000	286,000	198,000	6,600,000
N-Nitrosodiethylamine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
n-Nitrosodimethylamine	1,700 U	19,000 U	1,000 U	350 U	7,800 U
N-Nitrosodi-n-butylamine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
n-Nitroso-di-n-Propylamine	1,700 U	19,000 U	1,000 U	350 U	7,800 U
n-Nitrosodiphenylamine	31,100	47,000 U	2,600 U	870 U	20,000 U
N-Nitrosomethylamine	4,400 UJ, 91	47,000 U	2,600 U	870 U	20,000 U
N-Nitrosomorpholine	4,400 UJ, 91	47,000 U	2,600 U	870 U	20,000 U
N-Nitrosopiperidine	4,400 UJ, 91	47,000 U	2,600 U	870 U	20,000 U
N-Nitrosopyrrolidine	4,400 UJ, 91	47,000 U	2,600 U	870 U	20,000 U
o-Toluidine	4,400 U	47,000 U	2,600 U	870 U	20,000 U
p-(Dimethylamine)azobenzene	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Pentachlorobenzene	4,400 U	47,000 U	2,600 U	870 U	20,000 U
Pentachlorophenol	8,700 U	94,000 U	5,200 U	1,700 U	39,000 U
Phenanthrene	870 U	58,500	520 U	170 U	64,400
Phenol	67,400	19,000 U	4,450	7,110	7,800 U
Pyrene	3,140	9,400 U	22,500	10,300	3,900 U
Salicylic acid	87,000 U	940,000 U	52,000 U	17,000 U	390,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due field duplicate excursions.

35A=Result was qualified due to a holding time excursion

89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01HCOL_03_05072010	IM01VR0M_01_05052010	IM01HCOM_02_05052010	IM01HC0N_02_05042010	IM01VR0O_01_05062010
Sample Date	5/7/2010	5/5/2010	5/5/2010	5/4/2010	5/6/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
1,1'-Biphenyl	6,860 J	5,910	9,060	37,500	52,800
1,2,4,5-Tetrachlorobenzene	24,000 U	450 U	850 U	46,000 U	3,900 U
1,2-Dichlorobenzene	720,000	3,390	1,050,000 J	769,000	2,180,000
1,2-Diphenylhydrazine	9,700 U	180 U	340 U	18,000 U	1,500 U
1,4-Dichlorobenzene	48,100 J	197 J	1,700,000 U	59,600 J	138,000 J
1,4-Naphthoquinone	24,000 U	450 U	850 U	46,000 U	3,900 U
1-Chloro-2-nitrobenzene	9,700 U	180 U	340 U	18,000 U	1,500 U
2,3,4,6-Tetrachlorophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
2,4,5-Trichlorophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
2,4,6-Trichlorophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
2,4-Dichlorophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
2,4-Dimethylphenol	24,000 U	369 J	7,330	18,900 J	40,600
2,4-Dinitrophenol	97,000 U	1,800 U	3,400 U	180,000 U	15,000 U
2,4-Dinitrotoluene	9,700 U	180 U	340 U	18,000 U	1,500 U
2,6-Dinitrotoluene	9,700 U	180 U	340 U	18,000 U	1,500 U
2-Acetylaminofluorene	24,000 U	450 U	850 U	46,000 U	3,900 U
2-Chloroaniline	24,000 U	450 U	850 U	46,000 U	3,900 U
2-Chloronaphthalene	9,700 U	2,180	4,350	53,000	50,000
2-Chlorophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
2-Methylnaphthalene	91,300	27,400	93,300	278,000	367,000
2-Methylphenol	9,700 U	180 U	340 U	18,000 U	18,300
2-Nitroaniline	24,000 U	450 U	850 U	46,000 U	3,900 U
2-Nitrophenol	24,000 U	450 U	850 U	46,000 U	3,900 U
3 & 4-Methylphenol	31,900	180 U	17,300	42,600	127,000
3,3'-Dichlorobenzidine	24,000 U	450 U	850 U	46,000 U	3,900 U
3-Nitroaniline	24,000 U	450 U	850 U	46,000 U	3,900 U
4,6-Dinitro-2-Methylphenol	97,000 U	1,800 U	3,400 U	180,000 U	15,000 U
4-Aminobiphenyl	24,000 U	450 U	850 U	46,000 U	3,900 U
4-Bromophenyl Phenyl Ether	9,700 U	180 U	340 U	18,000 U	1,500 U
4-chloro-3-Methyl Phenol	24,000 U	450 U	850 U	46,000 U	3,900 U
4-Chloroaniline	24,000 U	450 U	850 U	46,000 U	3,900 U
4-Chlorophenyl Phenyl Ether	9,700 U	180 U	340 U	18,000 U	1,500 U
4-Nitroaniline	24,000 U	450 U	850 U	46,000 U	3,900 U
4-Nitrophenol	49,000 U	890 U	1,700 U	91,000 U	7,700 U
Acenaphthene	4,900 U	5,790	170 U	9,100 U	770 U
Acenaphthylene	4,900 U	4,860	170 U	9,100 U	770 U
Acetophenone	152,000	2,660	117,000	160,000	426,000
Acrylonitrile	6,400,000 U	7,700 U	17,000,000 U	5,600,000 U	6,000,000 U
Aniline	180,000	5,820	56,100	476,000	873,000
Anthracene	4,900 U	17,700	170 U	9,100 U	770 U
Atrazine	24,000 U	450 U	850 U	46,000 U	3,900 U
Benzaldehyde	24,000 U	450 U	850 U	46,000 U	3,900 U
Benzidine	97,000 U	1,800 U	3,400 U	180,000 U	15,000 U
Benzo(a)Anthracene	4,900 U	18,100	1,010	9,100 U	770 U
Benzo(a)Pyrene	4,900 U	15,000	170 U	9,100 U	770 U
Benzo(b)Fluoranthene.	4,900 U	14,200	12,900	9,100 U	770 U
Benzo(g,h,i)Perylene	4,900 U	8,690	2,310	9,100 U	770 U
Benzo(k)Fluoranthene	4,900 U	9,100	10,400	9,100 U	770 U
Benzoic acid	305,000	1,800 U	272,000	395,000	891,000
Benzyl Alcohol	9,700 U	180 U	340 U	18,000 U	1,500 U
bis(2-Chloroethoxy)Methane	9,700 U	180 U	340 U	18,000 U	1,500 U
bis(2-Chloroethyl)Ether	9,700 U	180 U	340 U	18,000 U	1,500 U
bis(2-Chloroisopropyl)Ether	9,700 U	180 U	340 U	18,000 U	1,500 U
bis(2-Ethylhexyl)Adipate	9,700 U	180 U	5,510	18,000 U	1,500 U
bis(2-Ethylhexyl)Phthalate	9,700 U	180 U	340 U	18,000 U	1,500 U
Butyl Benzyl Phthalate	9,700 U	180 U	340 U	18,000 U	1,500 U
Caprolactam	9,700 U	180 U	340 U	18,000 U	1,500 U
Carbazole	9,700 U	4,940	340 U	18,000 U	1,500 U
Catechol	49,000 U	890 U	1,700 U	91,000 U	7,700 U
Chlorobenzilate	24,000 U	450 U	850 U	46,000 U	3,900 U
Chrysene	4,900 U	16,300	1,090	9,100 U	770 U
Dibenz(o,h)Anthracene	4,900 U	3,340	170 U	9,100 U	770 U
Diisobutylene	15,300	17,500	9,020	49,700	50,700
Diethyl Phthalate	9,700 U	180 U	340 U	18,000 U	1,500 U
Dimethyl Phthalate	9,700 U	180 U	340 U	37,200	1,500 U
di-n-Butyl Phthalate	9,700 U	180 U	340 U	18,000 U	1,500 U
di-n-Octyl Phthalate	9,700 U	180 U	340 U	18,000 U	1,500 U
Diphenylamine	24,000 U	450 U	850 U	46,000 U	3,900 U
Fluoranthene	4,900 U	60,900	3,130	9,100 U	17,800
Fluorene	4,900 U	89 U	170 U	9,100 U	770 U
Hexachlorobenzene	9,700 U	180 U	340 U	18,000 U	1,500 U
Hexachlorobutadiene	4,900 U	89 U	170 U	9,100 U	770 U
Hexachlorocyclopentadiene	97,000 U	1,800 U	3,400 U	180,000 U	15,000 U
Hexachloroethane	24,000 U	450 U	850 U	46,000 U	3,900 U
Hydroquinone	49,000 U	890 U	1,700 U	91,000 U	7,700 U

Wyeth Holdings Corporation
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Table 4
SVOC Sludge Data

Sample ID	IM01HCOL 03_05072010	IM01VR0M 01_05052010	IM01HCOM 02_05052010	IM01HC0N 02_05042010	IM01VR0O 01_05062010
Sample Date	5/7/2010	5/5/2010	5/5/2010	5/4/2010	5/6/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	4,900 U	8,800	1,960	9,100 U	770 U
Isophorone	9,700 U	180 U	340 U	18,000 U	1,500 U
Isopropyl Alcohol	200,000 U	140,000 U	260,000 U	180,000 U	230,000 U
Methylcyclohexane	640,000 U	5,510	1,700,000 U	560,000 U	600,000 U
Naphthalene	1,810,000	316,000	2,080,000	5,300,000	1,340,000
Nitrobenzene	714,000	7,180	56,400	1,060,000	881,000
N-Nitrosodiethylamine	24,000 U	450 U	850 U	46,000 U	3,900 U
n-Nitrosodimethylamine	9,700 U	180 U	340 U	18,000 U	1,500 U
N-Nitrosodi-n-butylamine	24,000 U	450 U	850 U	46,000 U	3,900 U
n-Nitroso-di-n-Propylamine	9,700 U	180 U	340 U	18,000 U	1,500 U
n-Nitrosodiphenylamine	24,000 U	450 U	850 U	46,000 U	3,900 U
N-Nitrosomethylamine	24,000 U	450 U	850 U	46,000 U	3,900 U
N-Nitrosomorpholine	24,000 U	450 U	850 U	46,000 U	3,900 U
N-Nitrosopiperidine	24,000 U	450 U	850 U	46,000 U	3,900 U
N-Nitrosopyrrolidine	24,000 U	450 U	850 U	46,000 U	3,900 U
o-Toluidine	24,000 U	450 U	850 U	46,000 U	3,900 U
p-(Dimethylamine)azobenzene	24,000 U	450 U	850 U	46,000 U	3,900 U
Pentachlorobenzene	24,000 U	450 U	850 U	46,000 U	3,900 U
Pentachlorophenol	49,000 U	890 U	1,700 U	91,000 U	7,700 U
Phenanthrene	16,600	93,000	170 U	54,700	770 U
Phenol	9,700 U	180 U	13,000	18,000 U	79,700
Pyrene	4,900 U	41,700	1,940	15,000	12,200 J
Salicylic acid	490,000 U	8,900 U	17,000 U	910,000 U	77,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due field duplicate excursions.

35A=Result was qualified due to a holding time excursion

89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01HC00_02_05062010	IM02VR0A_01_04222010	IM02HC0A_02_04222010	IM02VR0B_01_04222010	IM02HC0B_02_04222010
Sample Date	5/6/2010	4/22/2010	4/22/2010	4/22/2010	4/22/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
1,1'-Biphenyl	17,500	45,700	9,600 U	35,500	27,500
1,2,4,5-Tetrachlorobenzene	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
1,2-Dichlorobenzene	1,120,000 J	1,670,000	13,000,000 U	1,070,000	1,220,000
1,2-Diphenylhydrazine	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
1,4-Dichlorobenzene	1,300,000 U	146,000 J	13,000,000 U	83,900 J	93,800 J
1,4-Naphthoquinone	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
1-Chloro-2-nitrobenzene	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
2,3,4,6-Tetrachlorophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2,4,5-Trichlorophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2,4,6-Trichlorophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2,4-Dichlorophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2,4-Dimethylphenol	14,200	24,000 U	24,000 U	6,840	5,700
2,4-Dinitrophenol	14,000 U	96,000 U	96,000 U	19,000 U	19,000 U
2,4-Dinitrotoluene	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
2,6-Dinitrotoluene	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
2-Acetylaminofluorene	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2-Chloroaniline	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2-Chloronaphthalene	12,200	9,600 U	9,600 U	12,700	9,120
2-Chlorophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2-Methylnaphthalene	105,000	212,000	65,600	292,000	212,000
2-Methylphenol	5,250	9,600 U	9,600 U	1,900 U	1,900 U
2-Nitroaniline	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
2-Nitrophenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
3 & 4-Methylphenol	29,500	9,600 U	9,600 U	6,990	7,330
3,3'-Dichlorobenzidine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
3-Nitroaniline	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
4,6-Dinitro-2-Methylphenol	14,000 U	96,000 U	96,000 U	19,000 U	19,000 U
4-Aminobiphenyl	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
4-Bromophenyl Phenyl Ether	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
4-chloro-3-Methyl Phenol	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
4-Chloroaniline	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
4-Chlorophenyl Phenyl Ether	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
4-Nitroaniline	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
4-Nitrophenol	7,000 U	48,000 U	48,000 U	9,600 U	9,400 U
Acenaphthene	700 U	4,800 U	4,800 U	55,200	45,500
Acenaphthylene	700 U	4,800 U	4,800 U	960 U	940 U
Acetophenone	223,000	137,000	255,000	161,000	197,000
Acrylonitrile	13,000,000 U	2,000,000 U	130,000,000 U	2,500,000 U	5,000,000 U
Aniline	229,000	64,300	7,540 J	72,800	77,800
Anthracene	700 U	4,800 U	4,210 J	6,030	5,100
Atrazine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Benzaldehyde	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Benzidine	14,000 U	96,000 U	96,000 U	19,000 U	19,000 U
Benzo(a)Anthracene	700 U	4,800 U	4,800 U	960 U	940 U
Benzo(a)Pyrene	700 U	4,800 U	4,800 U	960 U	940 U
Benzo(b)Fluoranthene.	700 U	4,800 U	4,800 U	960 U	940 U
Benzo(g,h,i)Perylene	700 U	4,800 U	4,800 U	960 U	940 U
Benzo(k)Fluoranthene	700 U	4,800 U	4,800 U	960 U	940 U
Benzoic acid	220,000	58,200 J	111,000	19,000 U	19,000 U
Benzyl Alcohol	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
bis(2-Chloroethoxy)Methane	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
bis(2-Chloroethyl)Ether	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
bis(2-Chloroisopropyl)Ether	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
bis(2-Ethylhexyl)Adipate	13,700	9,600 U	9,600 U	13,600	1,900 U
bis(2-Ethylhexyl)Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Butyl Benzyl Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Caprolactam	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Carbazole	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Catechol	7,000 U	48,000 U	48,000 U	9,600 U	9,400 U
Chlorobenzilate	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Chrysene	700 U	4,800 U	4,800 U	960 U	940 U
Dibenz(o,h)Anthracene	700 U	4,800 U	4,800 U	960 U	940 U
Dibenzofuran	16,300	30,900	7,070 J	20,500	15,700
Diethyl Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Dimethyl Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
di-n-Butyl Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
di-n-Octyl Phthalate	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Diphenylamine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Fluoranthene	6,610	8,960	4,800 U	14,100	11,000
Fluorene	700 U	4,800 U	4,800 U	960 U	940 U
Hexachlorobenzene	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Hexachlorobutadiene	700 U	4,800 U	4,800 U	960 U	940 U
Hexachlorocyclopentadiene	14,000 U	96,000 U	96,000 U	19,000 U	19,000 U
Hexachloroethane	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Hydroquinone	7,000 U	48,000 U	48,000 U	9,600 U	9,400 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM01HC00 02_05062010	IM02VR0A 01_04222010	IM02HC0A 02_04222010	IM02VR0B 01_04222010	IM02HC0B 02_04222010
Sample Date	5/6/2010	4/22/2010	4/22/2010	4/22/2010	4/22/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	700 U	4,800 U	4,800 U	960 U	940 U
Isophorone	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
Isopropyl Alcohol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U
Methylcyclohexane	1,300,000 U	200,000 U	13,000,000 U	250,000 U	500,000 U
Naphthalene	2,390,000	3,890,000	1,040,000	4,740,000	4,620,000
Nitrobenzene	1,490,000	9,600 U	9,600 U	78,500	62,800
N-Nitrosodiethylamine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
n-Nitrosodimethylamine	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
N-Nitrosodi-n-butylamine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
n-Nitroso-di-n-Propylamine	1,400 U	9,600 U	9,600 U	1,900 U	1,900 U
n-Nitrosodiphenylamine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
N-Nitrosomethylmethamphetamine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
N-Nitrosomorpholine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
N-Nitrosopiperidine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
N-Nitrosopyrrolidine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
o-Toluidine	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
p-(Dimethylamine)azobenzene	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Pentachlorobenzene	3,500 U	24,000 U	24,000 U	4,800 U	4,700 U
Pentachlorophenol	7,000 U	48,000 U	48,000 U	9,600 U	9,400 U
Phenanthrene	700 U	36,300	9,930	76,800	85,100
Phenol	16,900	9,600 U	9,600 U	1,900 U	1,900 U
Pyrene	1,270	4,800 U	4,800 U	1,930	1,490
Salicylic acid	70,000 U	480,000 U	480,000 U	96,000 U	94,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due field duplicate excursions.

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Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0C 01_04262010	IM02HCOC 02_04262010	IM02VR0D 01_04222010	IM02HCOD 02_04222010	IM02VROE 01_04212010
Sample Date	4/26/2010	4/26/2010	4/22/2010	4/22/2010	4/21/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	73,000	18,300	10,300	6,610 J	35,300
1,2,4,5-Tetrachlorobenzene	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
1,2-Dichlorobenzene	2,440,000	500,000	1,150,000	1,250,000	3,180,000
1,2-Diphenylhydrazine	4,000 U	3,900 U	9,400 U	9,600 U	800 U
1,4-Dichlorobenzene	210,000	50,800 J	99,700 J	114,000 J	279,000 J
1,4-Naphthoquinone	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
1-Chloro-2-nitrobenzene	4,000 U	3,900 U	9,400 U	9,600 U	800 U
2,3,4,6-Tetrachlorophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2,4,5-Trichlorophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2,4,6-Trichlorophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2,4-Dichlorophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2,4-Dimethylphenol	14,300	14,400	24,000 U	24,000 U	2,000 U
2,4-Dinitrophenol	40,000 U	39,000 U	94,000 U	96,000 U	8,000 U
2,4-Dinitrotoluene	4,000 U	3,900 U	9,400 U	9,600 U	800 U
2,6-Dinitrotoluene	4,000 U	3,900 U	9,400 U	9,600 U	800 U
2-Acetylaminofluorene	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2-Chloroaniline	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2-Chloronaphthalene	23,800	3,900 U	9,400 U	9,600 U	800 U
2-Chlorophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2-Methylnaphthalene	517,000	131,000	101,000	93,600	189,000
2-Methylphenol	4,000 U	3,900 U	9,400 U	9,600 U	3,080
2-Nitroaniline	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
2-Nitrophenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
3 & 4-Methylphenol	14,500	14,500	9,400 U	9,600 U	26,900
3,3'-Dichlorobenzidine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
3-Nitroaniline	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
4,6-Dinitro-2-Methylphenol	40,000 U	39,000 U	94,000 U	96,000 U	8,000 U
4-Aminobiphenyl	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
4-Bromophenyl Phenyl Ether	4,000 U	3,900 U	9,400 U	9,600 U	800 U
4-chloro-3-Methyl Phenol	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
4-Chloroaniline	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
4-Chlorophenyl Phenyl Ether	4,000 U	3,900 U	9,400 U	9,600 U	800 U
4-Nitroaniline	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
4-Nitrophenol	20,000 U	20,000 U	47,000 U	48,000 U	4,000 U
Acenaphthene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Acenaphthylene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Acetophenone	417,000	175,000	109,000	148,000	241,000
Acrylonitrile	2,000,000 U	5,000,000 U	2,500,000 U	6,300,000 U	3,400,000 U
Aniline	89,200	3,900 U	14,600	14,200	67,000
Anthracene	11,500	2,000 U	12,900	4,800 U	400 U
Atrazine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Benzaldehyde	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Benzidine	40,000 U	39,000 U	94,000 U	96,000 U	8,000 U
Benzo(a)Anthracene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Benzo(a)Pyrene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Benzo(b)Fluoranthene.	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Benzo(g,h,i)Perylene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Benzo(k)Fluoranthene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Benzoic acid	168,000	117,000	35,600 J	96,000 U	120,000
Benzyl Alcohol	4,000 U	3,900 U	9,400 U	9,600 U	800 U
bis(2-Chloroethoxy)Methane	4,000 U	3,900 U	9,400 U	9,600 U	800 U
bis(2-Chloroethyl)Ether	4,000 U	3,900 U	9,400 U	9,600 U	800 U
bis(2-Chloroisopropyl)Ether	4,000 U	3,900 U	9,400 U	9,600 U	800 U
bis(2-Ethylhexyl)Adipate	4,000 U	39,800	9,400 U	9,600 U	92,400
bis(2-Ethylhexyl)Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Butyl Benzyl Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Caprolactam	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Carbazole	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Catechol	20,000 U	20,000 U	47,000 U	48,000 U	4,000 U
Chlorobenzilate	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Chrysene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Dibenz(o,h)Anthracene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Dibenzofuran	36,300	10,300	13,700	12,100	17,700
Diethyl Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Dimethyl Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
di-n-Butyl Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
di-n-Octyl Phthalate	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Diphenylamine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Fluoranthene	29,300	4,970	3,920 J	3,420 J	5,870
Fluorene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Hexachlorobenzene	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Hexachlorobutadiene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Hexachlorocyclopentadiene	40,000 U	39,000 U	94,000 U	96,000 U	8,000 U
Hexachloroethane	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Hydroquinone	20,000 U	20,000 U	47,000 U	48,000 U	4,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0C 01_04262010	IM02HCOC 02_04262010	IM02VR0D 01_04222010	IM02HCOD 02_04222010	IM02VROE 01_04212010
Sample Date	4/26/2010	4/26/2010	4/22/2010	4/22/2010	4/21/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	2,000 U	2,000 U	4,700 U	4,800 U	400 U
Isophorone	4,000 U	3,900 U	9,400 U	9,600 U	800 U
<i>Isopropyl Alcohol</i>	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U
Methylcyclohexane	200,000 U	500,000 U	250,000 U	630,000 U	386,000
Naphthalene	<i>11,000,000</i>	<i>2,010,000</i>	<i>1,730,000</i>	<i>1,740,000</i>	<i>3,500,000</i>
Nitrobenzene	70,600	3,900 U	9,400 U	9,600 U	800 U
N-Nitrosodiethylamine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
n-Nitrosodimethylamine	4,000 U	3,900 U	9,400 U	9,600 U	800 U
N-Nitrosodi-n-butylamine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
n-Nitroso-di-n-Propylamine	4,000 U	3,900 U	9,400 U	9,600 U	800 U
n-Nitrosodiphenylamine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
N-Nitrosodimethylamine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
N-Nitrosomorpholine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
N-Nitrosopiperidine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
N-Nitrosopyrrolidine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
o-Toluidine	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
p-(Dimethylamine)azobenzene	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Pentachlorobenzene	10,000 U	9,800 U	24,000 U	24,000 U	2,000 U
Pentachlorophenol	20,000 U	20,000 U	47,000 U	48,000 U	4,000 U
Phenanthrene	192,000	2,000 U	18,500	15,800	34,200
Phenol	4,000 U	3,900 U	9,400 U	9,600 U	800 U
Pyrene	4,140	1,290 J	4,700 U	4,800 U	400 U
Salicylic acid	200,000 U	200,000 U	470,000 U	480,000 U	40,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due field duplicate excursions.

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89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02HC0E_02_04212010	IM02VR0F_01_04202010	IM02INOF_02_04212010	IM02HCOF_03_04212010	IM02VR0G_01_04262010
Sample Date	4/21/2010	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	36,000	33,200	14,200 J	31,900	65,900
1,2,4,5-Tetrachlorobenzene	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
1,2-Dichlorobenzene	3,230,000	3,670,000	1,500,000	1,460,000	1,240,000
1,2-Diphenylhydrazine	820 U	980 U	880 U	1,200 U	4,000 U
1,4-Dichlorobenzene	312,000 J	324,000	147,000 J	136,000 J	116,000 J
1,4-Naphthoquinone	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
1-Chloro-2-nitrobenzene	820 U	980 U	880 U	1,200 U	4,000 U
2,3,4,6-Tetrachlorophenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2,4,5-Trichlorophenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2,4-Dichlorophenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2,4-Dimethylphenol	2,000 U	2,500 U	2,200 U	2,900 U	13,000
2,4-Dinitrophenol	8,200 U	9,800 U	8,800 U	12,000 U	40,000 U
2,4-Dinitrotoluene	820 U	980 U	880 U	1,200 U	4,000 U
2,6-Dinitrotoluene	820 U	980 U	880 U	1,200 U	4,000 U
2-Acetylaminofluorene	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2-Chloroaniline	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2-Chloronaphthalene	820 U	980 U	880 U	1,200 U	4,000 U
2-Chlorophenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2-Methylnaphthalene	139,000	271,000	161,000	120,000	443,000
2-Methylphenol	2,760	4,780	5,580	1,200 U	4,000 U
2-Nitroaniline	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
2-Nitrophenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
3 & 4-Methylphenol	19,900	17,600	21,100	8,930	13,100
3,3'-Dichlorobenzidine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
3-Nitroaniline	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
4,6-Dinitro-2-Methylphenol	8,200 U	9,800 U	8,800 U	12,000 U	40,000 U
4-Aminobiphenyl	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
4-Bromophenyl Phenyl Ether	820 U	980 U	880 U	1,200 U	4,000 U
4-chloro-3-Methyl Phenol	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
4-Chloroaniline	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
4-Chlorophenyl Phenyl Ether	820 U	980 U	880 U	1,200 U	4,000 U
4-Nitroaniline	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
4-Nitrophenol	4,100 U	4,900 U	4,400 U	5,900 U	20,000 U
Acenaphthene	410 U	490 U	440 U	590 U	2,000 U
Acenaphthylene	410 U	490 U	440 U	590 U	2,000 U
Acetophenone	293,000	353,000	365,000	652,000	292,000
Acrylonitrile	11,000,000 U	1,100,000 U	9,700,000 U	1,400,000 U	2,000,000 U
Aniline	820 U	91,100	59,800	1,200 U	49,000
Anthracene	410 U	23,700	440 U	590 U	12,300
Atrazine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Benzaldehyde	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Benzidine	8,200 U	9,800 U	8,800 U	12,000 U	40,000 U
Benzo(a)Anthracene	410 U	490 U	440 U	590 U	2,000 U
Benzo(a)Pyrene	410 U	490 U	440 U	590 U	2,000 U
Benzo(b)Fluoranthene.	410 U	490 U	440 U	590 U	2,000 U
Benzo(g,h,i)Perylene	410 U	490 U	440 U	590 U	2,000 U
Benzo(k)Fluoranthene	410 U	490 U	440 U	590 U	2,000 U
Benzoic acid	90,400	221,000	194,000	161,000	147,000
Benzyl Alcohol	820 U	980 U	880 U	1,200 U	4,000 U
bis(2-Chloroethoxy)Methane	820 U	980 U	880 U	1,200 U	4,000 U
bis(2-Chloroethyl)Ether	820 U	980 U	880 U	1,200 U	4,000 U
bis(2-Chloroisopropyl)Ether	820 U	980 U	880 U	1,200 U	4,000 U
bis(2-Ethylhexyl)Adipate	67,300	980 U	880 U	23,600	23,500
bis(2-Ethylhexyl)Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
Butyl Benzyl Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
Caprolactam	820 U	980 U	880 U	1,200 U	4,000 U
Carbazole	820 U	980 U	880 U	1,200 U	4,000 U
Catechol	4,100 U	4,900 U	4,400 U	5,900 U	20,000 U
Chlorobenzilate	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Chrysene	410 U	490 U	440 U	590 U	2,000 U
Dibenz(o,h)Anthracene	410 U	490 U	440 U	590 U	2,000 U
Dibenzofuran	19,300	11,700	24,700	15,500	33,200
Diethyl Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
Dimethyl Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
di-n-Butyl Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
di-n-Octyl Phthalate	820 U	980 U	880 U	1,200 U	4,000 U
Diphenylamine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Fluoranthene	3,700	8,700	4,190	2,950	28,600
Fluorene	410 U	490 U	440 U	590 U	2,000 U
Hexachlorobenzene	820 U	980 U	880 U	1,200 U	4,000 U
Hexachlorobutadiene	410 U	490 U	440 U	590 U	2,000 U
Hexachlorocyclopentadiene	8,200 U	9,800 U	8,800 U	12,000 U	40,000 U
Hexachloroethane	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Hydroquinone	4,100 U	4,900 U	4,400 U	5,900 U	20,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02HC0E 02_04212010	IM02VR0F 01_04202010	IM02INOF 02_04212010	IM02HCOF 03_04212010	IM02VR0G 01_04262010
Sample Date	4/21/2010	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	410 U	490 U	440 U	590 U	2,000 U
Isophorone	820 U	980 U	880 U	1,200 U	4,000 U
Isopropyl Alcohol	6,150	3,600 U	8,000 U	11,000 U	100,000 U
Methylcyclohexane	1,160,000	172,000	1,030,000	173,000	200,000 U
Naphthalene	2,790,000	5,860,000	3,380,000	2,580,000	9,670,000
Nitrobenzene	820 U	110,000	880 U	1,200 U	4,000 U
N-Nitrosodiethylamine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
n-Nitrosodimethylamine	820 U	980 U	880 U	1,200 U	4,000 U
N-Nitrosodi-n-butylamine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
n-Nitroso-di-n-Propylamine	820 U	980 U	880 U	1,200 U	4,000 U
n-Nitrosodiphenylamine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
N-Nitrosomethylamine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
N-Nitrosomorpholine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
N-Nitrosopiperidine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
N-Nitrosopyrrolidine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
o-Toluidine	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
p-(Dimethylamine)azobenzene	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Pentachlorobenzene	2,000 U	2,500 U	2,200 U	2,900 U	10,000 U
Pentachlorophenol	4,100 U	4,900 U	4,400 U	5,900 U	20,000 U
Phenanthrene	22,200	32,100	21,100	17,700	189,000
Phenol	6,240	13,700	9,200	1,200 U	4,000 U
Pyrene	410 U	490 U	440 U	590 U	3,910
Salicylic acid	41,000 U	49,000 U	44,000 U	59,000 U	200,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

90=Results are qualified due

field duplicate excursions.

35A=Result was qualified due to a

holding time excursion

89 = Detected organic results

are qualified due to zero matrix

spike/matrix spike duplicate

recoveries.

89A=Organic results are qualified

due to matrix spike/matrix spike

duplicate precision excursions.

50=One internal standard area in

the sample did not meet the QC

criteria. Therefore, all

compound results using this

internal standard for quantitation

are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02HCOG 02_04262010	IM02VR0H 01_04272010	IM02DUP0 01_04272010	IM02VROI 01_04232010	IM02HC0I 02_04232010
Sample Date	4/26/2010	4/27/2010	4/27/2010	4/23/2010	4/23/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	40,700	49,800	57,400	15,200	41,000
1,2,4,5-Tetrachlorobenzene	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
1,2-Dichlorobenzene	1,240,000	1,510,000	1,780,000	1,620,000	1,570,000
1,2-Diphenylhydrazine	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
1,4-Dichlorobenzene	105,000 J	125,000 J	149,000 J	146,000 J	134,000 J
1,4-Naphthoquinone	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
1-Chloro-2-nitrobenzene	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
2,3,4,6-Tetrachlorophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2,4,5-Trichlorophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2,4,6-Trichlorophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2,4-Dichlorophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2,4-Dimethylphenol	12,200	6,720 J, 39	11,400	25,000 U	24,000 U
2,4-Dinitrophenol	38,000 U	40,000 U	39,000 U	100,000 U	96,000 U
2,4-Dinitrotoluene	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
2,6-Dinitrotoluene	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
2-Acetylaminofluorene	9,600 U	10,000 U	9,800 U	25,000 U	143,000 J
2-Chloroaniline	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2-Chloronaphthalene	3,800 U	27,100 U	41,800 U	10,000 U	9,600 U
2-Chlorophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2-Methylnaphthalene	280,000	300,000	414,000	129,000	209,000
2-Methylphenol	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
2-Nitroaniline	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
2-Nitrophenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
3 & 4-Methylphenol	10,900	8,250	19,700	10,000 U	9,600 U
3,3'-Dichlorobenzidine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
3-Nitroaniline	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
4,6-Dinitro-2-Methylphenol	38,000 U	40,000 U	39,000 U	100,000 U	96,000 U
4-Aminobiphenyl	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
4-Bromophenyl Phenyl Ether	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
4-chloro-3-Methyl Phenol	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
4-Chloroaniline	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
4-Chlorophenyl Phenyl Ether	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
4-Nitroaniline	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
4-Nitrophenol	19,000 U	20,000 U	20,000 U	50,000 U	48,000 U
Acenaphthene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Acenaphthylene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Acetophenone	242,000	177,000	378,000 J, 39	112,000	168,000
Acrylonitrile	5,000,000 U	2,000,000 U	2,000,000 U	5,000,000 U	2,500,000 U
Aniline	3,800 U	54,100	49,500	21,000	74,900
Anthracene	8,150	9,860	13,800	5,000 U	4,800 U
Atrazine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Benzaldehyde	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Benzidine	38,000 U	40,000 U, 91	39,000 U	100,000 U	96,000 U
Benzo(a)Anthracene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Benzo(a)Pyrene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Benzo(b)Fluoranthene.	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Benzo(g,h,i)Perylene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Benzo(k)Fluoranthene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Benzoic acid	117,000	135,000	146,000	47,200 J	86,800 J
Benzyl Alcohol	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
bis(2-Chloroethoxy)Methane	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
bis(2-Chloroethyl)Ether	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
bis(2-Chloroisopropyl)Ether	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
bis(2-Ethylhexyl)Adipate	13,300	42,100	85,100	10,000 U	9,600 U
bis(2-Ethylhexyl)Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Butyl Benzyl Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Caprolactam	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Carbazole	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Catechol	19,000 U	20,000 U	20,000 U	50,000 U	48,000 U
Chlorobenzilate	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Chrysene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Dibenzo(a,h)Anthracene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Dibenzofuran	21,400	26,300	30,600	17,900	31,500
Diethyl Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Dimethyl Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
di-n-Butyl Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
di-n-Octyl Phthalate	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Diphenylamine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Fluoranthene	14,900	21,700	29,300	4,880 J	9,130
Fluorene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Hexachlorobenzene	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Hexachlorobutadiene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Hexachlorocyclopentadiene	38,000 U	40,000 U	39,000 U	100,000 U	96,000 U
Hexachloroethane	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Hydroquinone	19,000 U	20,000 U	20,000 U	50,000 U	48,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02HCOG 02_04262010	IM02VR0H 01_04272010	IM02DUP0 01_04272010	IM02VROI 01_04232010	IM02HC0I 02_04232010
Sample Date	4/26/2010	4/27/2010	4/27/2010	4/23/2010	4/23/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	1,900 U	2,000 U	2,000 U	5,000 U	4,800 U
Isophorone	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
<i>Isopropyl Alcohol</i>	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
Methylcyclohexane	500,000 U	200,000 U	215,000	500,000 U	250,000 U
Naphthalene	<i>4,810,000</i>	<i>7,600,000</i>	<i>9,410,000</i>	<i>2,300,000</i>	<i>3,320,000</i>
Nitrobenzene	3,800 U	24,100 J, 90	3,900 U, 90	10,000 U	9,600 U
N-Nitrosodiethylamine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
n-Nitrosodimethylamine	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
N-Nitrosodi-n-butylamine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
n-Nitroso-di-n-Propylamine	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
n-Nitrosodiphenylamine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
N-Nitrosomethylmethyamine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
N-Nitrosomorpholine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
N-Nitrosopiperidine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
N-Nitrosopyrrolidine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
o-Toluidine	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
p-(Dimethylamine)azobenzene	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Pentachlorobenzene	9,600 U	10,000 U	9,800 U	25,000 U	24,000 U
Pentachlorophenol	19,000 U	20,000 U	20,000 U	50,000 U	48,000 U
Phenanthrene	123,000	160,000	189,000	23,000	38,700
Phenol	3,800 U	4,000 U	3,900 U	10,000 U	9,600 U
Pyrene	2,420	3,100	3,900	5,000 U	2,510 J
Salicylic acid	190,000 U	200,000 U	200,000 U	500,000 U	480,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

90=Results are qualified due

field duplicate excursions.

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are qualified due to zero matrix

spike/matrix spike duplicate

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due to matrix spike/matrix spike

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50=One internal standard area in

the sample did not meet the QC

criteria. Therefore, all

compound results using this

internal standard for quantitation

are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0J_01_04232010	IM02HC0J_02_04232010	IM02VROK_01_04262010	IM02HCOK_02_04262010	IM02HC0L_02_04272010
Sample Date	4/23/2010	4/23/2010	4/26/2010	4/26/2010	4/27/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	67,800	10,000 U	74,200	24,800	45,100
1,2,4,5-Tetrachlorobenzene	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
1,2-Dichlorobenzene	1,570,000	2,450,000	2,100,000	1,660,000	1,220,000
1,2-Diphenylhydrazine	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
1,4-Dichlorobenzene	125,000 J	233,000 J	182,000 J	138,000 J	105,000 J
1,4-Naphthoquinone	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
1-Chloro-2-nitrobenzene	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
2,3,4,6-Tetrachlorophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2,4,5-Trichlorophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2,4,6-Trichlorophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2,4-Dichlorophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2,4-Dimethylphenol	25,000 U	25,000 U	8,040 J	6,580 J	10,500
2,4-Dinitrophenol	100,000 U	100,000 U	38,000 U	38,000 U	38,000 U
2,4-Dinitrotoluene	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
2,6-Dinitrotoluene	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
2-Acetylaminofluorene	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2-Chloroaniline	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2-Chloronaphthalene	10,000 U	10,000 U	3,800 U	3,800 U	78,800
2-Chlorophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2-Methylnaphthalene	297,000	88,200	526,000	111,000	267,000
2-Methylphenol	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
2-Nitroaniline	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
2-Nitrophenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
3 & 4-Methylphenol	10,000 U	10,000 U	6,040	4,760	7,500
3,3'-Dichlorobenzidine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
3-Nitroaniline	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
4,6-Dinitro-2-Methylphenol	100,000 U	100,000 U	38,000 U	38,000 U	38,000 U
4-Aminobiphenyl	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
4-Bromophenyl Phenyl Ether	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
4-chloro-3-Methyl Phenol	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
4-Chloroaniline	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
4-Chlorophenyl Phenyl Ether	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
4-Nitroaniline	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
4-Nitrophenol	50,000 U	50,000 U	19,000 U	19,000 U	19,000 U
Acenaphthene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U
Acenaphthylene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U
Acetophenone	164,000	238,000	269,000	118,000	304,000
Acrylonitrile	2,500,000 U	13,000,000 U	2,500,000 U	5,000,000 U	2,500,000 U
Aniline	133,000	23,000	51,000	3,800 U	3,800 U
Anthracene	5,000 U	5,000 U	13,100	5,850	9,290
Atrazine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Benzaldehyde	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Benzidine	100,000 U	100,000 U	38,000 U	38,000 U	38,000 U, 91
Benzo(a)Anthracene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U
Benzo(a)Pyrene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, 50
Benzo(b)Fluoranthene.	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, 50
Benzo(g,h,i)Perylene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, 50
Benzo(k)Fluoranthene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, 50
Benzoic acid	100,000 U	100,000 U	1,900,000 U	171,000	38,000 U
Benzyl Alcohol	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
bis(2-Chloroethoxy)Methane	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
bis(2-Chloroethyl)Ether	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
bis(2-Chloroisopropyl)Ether	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
bis(2-Ethylhexyl)Adipate	10,000 U	10,000 U	3,800 U	3,800 U	56,000
bis(2-Ethylhexyl)Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Butyl Benzyl Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Caprolactam	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Carbazole	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Catechol	50,000 U	50,000 U	19,000 U	19,000 U	19,000 U
Chlorobenzilate	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Chrysene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U
Dibenzo(a,h)Anthracene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, 50
Dibenzofuran	45,600	9,640 J	37,100	13,500	22,800
Diethyl Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Dimethyl Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
di-n-Butyl Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
di-n-Octyl Phthalate	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U, 50
Diphenylamine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Fluoranthene	12,800	5,000 U	30,800	8,530	15,300
Fluorene	5,000 U	5,000 U	96,000 U	1,900 U	1,900 U
Hexachlorobenzene	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Hexachlorobutadiene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U
Hexachlorocyclopentadiene	100,000 U	100,000 U	38,000 U	38,000 U	38,000 U
Hexachloroethane	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Hydroquinone	50,000 U	50,000 U	19,000 U	19,000 U	19,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0J 01_04232010	IM02HC0J 02_04232010	IM02VR0K 01_04262010	IM02HC0K 02_04262010	IM02HC0L 02_04272010
Sample Date	4/23/2010	4/23/2010	4/26/2010	4/26/2010	4/27/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	5,000 U	5,000 U	1,900 U	1,900 U	1,900 U, J, 50
Isophorone	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
<i>Isopropyl Alcohol</i>	2,100 U	4,510	100,000 U	100,000 U	100,000 U
Methylcyclohexane	250,000 U	1,300,000 U	250,000 U	500,000 U	266,000
Naphthalene	<i>4,560,000</i>	<i>1,530,000</i>	<i>10,700,000</i>	<i>2,730,000</i>	<i>6,710,000</i>
Nitrobenzene	10,000 U	10,000 U	43,700	3,800 U	3,800 U
N-Nitrosodiethylamine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
n-Nitrosodimethylamine	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
N-Nitrosodi-n-butylamine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
n-Nitroso-di-n-Propylamine	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
n-Nitrosodiphenylamine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
N-Nitrosomethylimidamine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
N-Nitrosomorpholine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
N-Nitrosopiperidine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
N-Nitrosopyrrolidine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
o-Toluidine	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
p-(Dimethylamine)azobenzene	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Pentachlorobenzene	25,000 U	25,000 U	9,600 U	9,400 U	9,600 U
Pentachlorophenol	50,000 U	50,000 U	19,000 U	19,000 U	19,000 U
Phenanthrene	53,800	15,800	169,000	67,400	125,000
Phenol	10,000 U	10,000 U	3,800 U	3,800 U	3,800 U
Pyrene	5,000 U	5,000 U	3,950	1,450 J	2,790
Salicylic acid	500,000 U	500,000 U	190,000 U	190,000 U	190,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds

calibration range

N/A = Indicates data is not

available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

90=Results are qualified due

field duplicate excursions.

35A=Result was qualified due to a holding time excursion

89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0M_01_04292010	IM02HCOM_02_04292010	IM02VR0N_01_04232010	IM02HC0N_02_04232010	IM02HCOO_02_04272010
Sample Date	4/29/2010	4/29/2010	4/23/2010	4/23/2010	4/27/2010
Sample Matrix Units	SL ug/kg				
SVOCs					
1,1'-Biphenyl	80,200	66,200	72,600	36,500	15,000
1,2,4,5-Tetrachlorobenzene	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
1,2-Dichlorobenzene	1,310,000	1,470,000	2,240,000	1,420,000	716,000
1,2-Diphenylhydrazine	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
1,4-Dichlorobenzene	114,000 J	127,000 J	190,000 J	131,000 J	70,200 J
1,4-Naphthoquinone	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
1-Chloro-2-nitrobenzene	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
2,3,4,6-Tetrachlorophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2,4,5-Trichlorophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2,4,6-Trichlorophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2,4-Dichlorophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2,4-Dimethylphenol	25,000 U	24,000 U	24,000 U	24,000 U	3,910 J, 39
2,4-Dinitrophenol	98,000 U	96,000 U	94,000 U	96,000 U	40,000 U
2,4-Dinitrotoluene	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
2,6-Dinitrotoluene	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
2-Acetylaminofluorene	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2-Chloroaniline	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2-Chloronaphthalene	34,800	26,700	9,400 U	9,600 U	4,300 U
2-Chlorophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2-Methylnaphthalene	656,000	494,000	307,000	195,000	83,000
2-Methylphenol	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
2-Nitroaniline	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
2-Nitrophenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
3 & 4-Methylphenol	9,800 U	22,900	9,400 U	9,600 U	4,900
3,3'-Dichlorobenzidine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
3-Nitroaniline	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
4,6-Dinitro-2-Methylphenol	98,000 U	96,000 U	94,000 U	96,000 U	40,000 U
4-Aminobiphenyl	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
4-Bromophenyl Phenyl Ether	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
4-chloro-3-Methyl Phenol	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
4-Chloroaniline	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
4-Chlorophenyl Phenyl Ether	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
4-Nitroaniline	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
4-Nitrophenol	49,000 U	48,000 U	47,000 U	48,000 U	20,000 U
Acenaphthene	180,000	149,000	4,700 U	4,800 U	2,000 U
Acenaphthylene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Acetophenone	399,000	434,000	176,000	130,000	34,600
Acrylonitrile	1,300,000 U	2,000,000 U	2,500,000 U	2,500,000 U	5,000,000 U
Aniline	173,000	83,400	108,000	50,000	4,000 U
Anthracene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Atrazine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Benzaldehyde	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Benzidine	98,000 U	96,000 U	94,000 U	96,000 U	40,000 U, 91
Benzo(a)Anthracene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Benzo(a)Pyrene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Benzo(b)Fluoranthene.	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Benzo(g,h,i)Perylene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Benzo(k)Fluoranthene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Benzoic acid	98,000 U	96,000 U	56,700 J	64,600 J	133,000
Benzyl Alcohol	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
bis(2-Chloroethoxy)Methane	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
bis(2-Chloroethyl)Ether	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
bis(2-Chloroisopropyl)Ether	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
bis(2-Ethylhexyl)Adipate	9,800 U	9,600 U	158,000	9,600 U	13,400
bis(2-Ethylhexyl)Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Butyl Benzyl Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Caprolactam	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Carbazole	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Catechol	49,000 U	48,000 U	47,000 U	48,000 U	20,000 U
Chlorobenzilate	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Chrysene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Dibenzo(a,h)Anthracene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Dibenzofuran	47,300	38,400	45,500	27,800	8,910
Diethyl Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Dimethyl Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
di-n-Butyl Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
di-n-Octyl Phthalate	9,800 U	9,600 U	9,400 U	9,600 U	4,000 UJ, 50
Diphenylamine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Fluoranthene	37,200	27,700	14,500	8,580	3,530
Fluorene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Hexachlorobenzene	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Hexachlorobutadiene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 U
Hexachlorocyclopentadiene	98,000 U	96,000 U	94,000 U	96,000 U	40,000 U
Hexachloroethane	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Hydroquinone	49,000 U	48,000 U	47,000 U	48,000 U	20,000 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 4
SVOC Sludge Data

Sample ID	IM02VR0M 01_04292010	IM02HCOM 02_04292010	IM02VR0N 01_04232010	IM02HC0N 02_04232010	IM02HCOO 02_04272010
Sample Date	4/29/2010	4/29/2010	4/23/2010	4/23/2010	4/27/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
SVOCs					
Indeno(1,2,3-Cd)Pyrene	4,900 U	4,800 U	4,700 U	4,800 U	2,000 UJ, 50
Isophorone	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
<i>Isopropyl Alcohol</i>	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
Methylcyclohexane	130,000 U	200,000 U	250,000 U	250,000 U	500,000 U
Naphthalene	<i>13,700,000</i>	<i>10,300,000</i>	<i>5,580,000</i>	<i>3,160,000</i>	<i>1,080,000</i>
Nitrobenzene	9,800 U	9,600 U	89,900	58,100	4,000 U
N-Nitrosodiethylamine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
n-Nitrosodimethylamine	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
N-Nitrosodi-n-butylamine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
n-Nitroso-di-n-Propylamine	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
n-Nitrosodiphenylamine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
N-Nitrosodimethylamine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
N-Nitrosomorpholine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
N-Nitrosopiperidine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
N-Nitrosopyrrolidine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
o-Toluidine	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
p-(Dimethylamine)azobenzene	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Pentachlorobenzene	25,000 U	24,000 U	24,000 U	24,000 U	10,000 U
Pentachlorophenol	49,000 U	48,000 U	47,000 U	48,000 U	20,000 U
Phenanthrene	4,900 U	239,000	57,500	36,200	2,000 U
Phenol	9,800 U	9,600 U	9,400 U	9,600 U	4,000 U
Pyrene	14,600	4,770 J	4,700 U	4,800 U	2,000 U
Salicylic acid	490,000 U	480,000 U	470,000 U	480,000 U	200,000 U

Notes:

U=Not detected

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associated method blank

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calibration range

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Wyeth Holdings Corporation
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Table 4
SVOC Sludge Data

Sample ID Sample Date Sample Matrix Units	Minimum	Maximum	Mean
SVOCs			
1,1'-Biphenyl	147	135,000	34,425
1,2,4,5-Tetrachlorobenzene	140	47,000	11,037
1,2-Dichlorobenzene	3,390	13,000,000	1,445,383
1,2-Diphenylhydrazine	57	19,000	4,393
1,4-Dichlorobenzene	197	13,000,000	472,688
1,4-Naphthoquinone	140	47,000	11,037
1-Chloro-2-nitrobenzene	57	19,000	4,393
2,3,4,6-Tetrachlorophenol	140	47,000	11,037
2,4,5-Trichlorophenol	140	47,000	11,037
2,4,6-Trichlorophenol	140	47,000	11,037
2,4-Dichlorophenol	140	47,000	11,037
2,4-Dimethylphenol	140	87,800	16,722
2,4-Dinitrophenol	570	190,000	43,926
2,4-Dinitrotoluene	57	19,000	4,393
2,6-Dinitrotoluene	57	19,000	4,393
2-Acetylaminofluorene	140	143,000	13,200
2-Chloroaniline	140	47,000	11,037
2-Chloronaphthalene	81.1	101,000	16,418
2-Chlorophenol	140	47,000	11,037
2-Methylnaphthalene	506	678,000	211,973
2-Methylphenol	57	43,400	7,166
2-Nitroaniline	140	47,000	11,037
2-Nitrophenol	140	47,000	11,037
3 & 4-Methylphenol	57	236,000	27,549
3,3'-Dichlorobenzidine	140	47,000	11,037
3-Nitroaniline	140	47,000	11,037
4,6-Dinitro-2-Methylphenol	570	190,000	43,926
4-Aminobiphenyl	140	47,000	11,037
4-Bromophenyl Phenyl Ether	57	19,000	4,393
4-chloro-3-Methyl Phenol	140	47,000	11,037
4-Chloroaniline	140	47,000	11,037
4-Chlorophenyl Phenyl Ether	57	19,000	4,393
4-Nitroaniline	140	47,000	11,037
4-Nitrophenol	280	94,000	21,996
Acenaphthene	28	180,000	12,332
Acenaphthylene	28	40,600	3,231
Acetophenone	94.3	1,190,000	255,127
Acrylonitrile	7,700	130,000,000	7,092,085
Aniline	189	6,030,000	331,957
Anthracene	28	103,000	6,898
Atrazine	140	47,000	11,037
Benzaldehyde	140	47,000	11,037
Benzidine	570	190,000	43,935
Benzo(a)Anthracene	89.1	87,300	5,369
Benzo(a)Pyrene	47.6	77,900	4,559
Benzo(b)Fluoranthene.	28	74,700	5,276
Benzo(g,h,i)Perylene	28	39,300	3,666
Benzo(k)Fluoranthene	28	49,400	4,272
Benzoic acid	570	1,900,000	224,592
Benzyl Alcohol	57	19,000	4,393
bis(2-Chloroethoxy)Methane	57	19,000	4,393
bis(2-Chloroethyl)Ether	57	19,000	4,393
bis(2-Chloroisopropyl)Ether	57	19,000	4,393
bis(2-Ethylhexyl)Adipate	57	158,000	19,642
bis(2-Ethylhexyl)Phthalate	57	19,000	4,393
Butyl Benzyl Phthalate	57	19,000	4,393
Caprolactam	57	19,000	4,393
Carbazole	57	46,500	5,489
Catechol	280	94,000	21,996
Chlorobenzilate	140	47,000	11,037
Chrysene	78.9	86,600	5,321
Dibenzo(a,h)Anthracene	28	18,200	2,708
Dibenzofuran	184	94,100	26,153
Diethyl Phthalate	57	19,000	4,393
Dimethyl Phthalate	57	86,700	8,318
di-n-Butyl Phthalate	57	19,000	4,393
di-n-Octyl Phthalate	57	19,000	4,393
Diphenylamine	140	47,000	11,037
Fluoranthene	315	262,000	17,577
Fluorene	28	101,000	6,539
Hexachlorobenzene	57	19,000	4,393
Hexachlorobutadiene	28	9,400	2,200
Hexachlorocyclopentadiene	570	190,000	43,926
Hexachloroethane	140	47,000	11,037
Hydroquinone	280	94,000	21,996

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Table 4
SVOC Sludge Data

Sample ID Sample Date Sample Matrix Units	Minimum	Maximum	Mean
SVOCs			
Indeno(1,2,3-Cd)Pyrene	28	40,200	3,698
Isophorone	57	19,000	4,393
<i>Isopropyl Alcohol</i>	2,000	270,000	91,919
Methylcyclohexane	2,400	13,000,000	714,776
Naphthalene	5,010	13,700,000	4,069,924
Nitrobenzene	57	6,600,000	543,490
N-Nitrosodiethylamine	140	47,000	11,037
n-Nitrosodimethylamine	57	19,000	4,393
N-Nitrosodi-n-butylamine	140	47,000	11,037
n-Nitroso-di-n-Propylamine	57	19,000	4,393
n-Nitrosodiphenylamine	140	47,000	11,938
N-Nitrosomethylmethyamine	140	47,000	11,037
N-Nitrosomorpholine	140	47,000	11,037
N-Nitrosopiperidine	140	47,000	11,037
N-Nitrosopyrrolidine	140	47,000	11,037
<i>o-Toluidine</i>	140	47,000	11,037
<i>p-(Dimethylamine)azobenzene</i>	140	47,000	11,037
Pentachlorobenzene	140	47,000	11,037
Pentachlorophenol	280	94,000	21,996
Phenanthrene	28	396,000	55,079
Phenol	180	79,700	9,934
Pyrene	186	188,000	9,868
Salicylic acid	2,800	940,000	219,956

Notes:

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90=Results are qualified due field duplicate excursions.

35A=Result was qualified due to a holding time excursion

89 = Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.

89A=Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.

50=One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated

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Table 5
Metals Sludge Data

Sample ID	IMO1VR0A_01_04302010	IMO1HC0A_02_04302010	IMO1CAOP_01_05052010	IMO1HC0B_02_05052010	IMO1VR0C_01_04302010	IMO1VROD_01_05052010	IMO1CA0Q_01_05042010	IMO1HCOE_02_05042010
Sample Date	4/30/2010	4/30/2010	5/5/2010	5/5/2010	4/30/2010	5/5/2010	5/4/2010	5/4/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	8,030	3,380	744	566	414	1,060	1,040	641
Antimony	2 U	2.1 U	3.7 U	3.7 U	2.1 U	2.8 U	4 U	3.4 U
Arsenic	13.8	11.4	4.7	3.9	2.1 U	10.3	5.4	3.4 U
Barium	42.4	21 U	37 U	37 U	21 U	59.9	40 U	34 U
Beryllium	0.69	0.25	0.37 U	0.37 U	0.21 U	0.73	0.4 U	0.34 U
Cadmium	0.51 U	0.52 U	0.92 U	0.92 U	0.52 U	0.69 U	1 U	0.85 U
Calcium	1,350	538	24,700	30,100	520 U	704	22,100	73,800
Chromium	37.4	50.2	4.5	5.3	3.3	16.7	7.3	5
Cobalt	8.3	7.2	9.2 U	9.2 U	5.2 U	6.9 U	10 U	8.5 U
Copper	39.2	55	51.6	57.1	17.6	34.5	148	73.6
Iron	33,600	40,900	2,090	1,460	2,150	11,200	2,310	1,950
Lead	22.9	38.6	92.5	80.2	35.7	28.6	168	84.8
Magnesium	1,820	659	17,200	1,330	520 U	690 U	11,200	10,800
Manganese	146	174	36.1	16.6	12.7	40.2	30.2	32.2
Mercury	0.031 U	0.064	1.4	1.9	0.77	0.96	2	1.7
Nickel	49.9	70.3	7.3 U	7.4 U	4.2 U	44.3	8.1 U	6.8 U
Potassium	1,270	1,000 U	1,800 U	1,800 U	1,000 U	1,400 U	2,000 U	1,700 U
Selenium	2 U	2.1 U	7.4	5.7	3.6	2.8 U	12	7.4
Silver	0.51 U	0.52 U	0.92 U	0.92 U	0.52 U	0.69 U	1 U	0.85 U
Sodium	1,000 U	1,000 U	2,870	2,160	1,730	1,400 U	4,160	3,090
Thallium	1 U	1 U	1.8 U	1.8 U	1 U	1.4 U	2 U	1.7 U
Vanadium	43.3	22.6	9.2 U	9.2 U	5.2 U	10.4	10 U	8.5 U
Zinc	44.8	23.9	5.6	6.5	2.9	22.4	8.3	6.3

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Table 5
Metals Sludge Data

Sample ID	IMO1VROF 01_05042010	IMO1HC0F 02_05042010	IMO1CA0R 01_05032010	IMO1DUP0 01_05032010	IMO1HC0G 01_05032010	IMO1VR0H 01_04302010	IMO1CA0S 01_05052010	IMO1HC0I 02_05052010
Sample Date	5/4/2010	5/4/2010	5/3/2010	5/3/2010	5/3/2010	4/30/2010	5/5/2010	5/5/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	735	<i>185</i>	934	1,260	971	378	217	281
Antimony	3.3 U	22.3	2.3 U	2.3 U	2.7 U	2.1 U	4.2 U	5.3 U
Arsenic	9.9 U	13	5.7	8.8	9.1	2.5	5.3	5.3 U
Barium	33 U	<i>46</i> U	81.5	63.7	48.1	21 U	42 U	53 U
Beryllium	0.33 U	0.46 U	0.73	0.89	0.73	0.21 U	0.42 U	0.53 U
Cadmium	0.83 U	1.2 U	0.59 U	0.57 U	0.68 U	0.52 U	1.1 U	1.3 U
Calcium	183,000	9,820	1,000	866	818	520 U	1,100 U	1,300 U
Chromium	3.2	5.1	7	11.3	13.4	2.4	3	3.3
Cobalt	8.3 U	12 U	5.9 U	5.7 U	6.8 U	5.2 U	11 U	13 U
Copper	15.3	12.1	13.4	16.6	26.9	16.2	78.1	54.1
Iron	2,840	1,220	3,670	4,840	8,370	939	291	697
Lead	14.2	118	7.8	15	21.2	29.3	150	126
Magnesium	117,000	10,500	590 U	570 U	680 U	520 U	1,100 U	1,300 U
Manganese	160	<i>24.3</i>	10.7	<i>16.8</i>	29.7	5.9	4.3	8
Mercury	0.29	0.63	0.07	0.092	0.58	0.32	2.6	1.8
Nickel	6.6	9.2 U	6.6	9.5	12.4	4.1 U	8.5 U	11 U
Potassium	1,700 U	2,300 U	1,200 U	1,100 U	1,400 U	1,000 U	2,100 U	2,700 U
Selenium	9.9 U	12.9	2.8	2.6	3	3.4	12.9	12.3
Silver	0.83 U	1.2 U	0.59 U	0.57 U	0.68 U	0.52 U	1.1 U	1.3 U
Sodium	1,700 U	2,300 U	1,200 U	1,100 U	1,400 U	1,000 U	2,100 U	2,700 U
Thallium	5 U	2.3 U	1.2 U	1.1 U	1.4 U	1 U	2.1 U	2.7 U
Vanadium	8.3 U	12 U	12	11.4	12.2	5.2 U	11 U	13 U
Zinc	10.1	5.6	5.9	11	12.6	2.3	4.2 U	5.3 U

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Table 5
Metals Sludge Data

Sample ID	IM01HC0J_02_05042010	IM01VROK_01_05062010	IM01HC0K_02_05062010	IM01HC0L_02_05072010	IM01HC0L_03_05072010	IM01VR0M_01_05052010	IM01HCOM_02_05052010	IM01HC0N_02_05042010
Sample Date	5/4/2010	5/6/2010	5/6/2010	5/7/2010	5/7/2010	5/5/2010	5/5/2010	5/4/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	490	1,370	1,100	228	456	1,260	370	412
Antimony	3.9 U	3.3 U	5.1 U	3.1 U	3.9 U	2.8 U	5.1 U	3.8 U
Arsenic	5.1	3.9	12.7	3.1 U	5.1	8.7	15.8	4.5
Barium	39 U	37.6	51 U	31 U	39 U	65.1	51 U	38 U
Beryllium	0.39 U	0.35	0.51 U	0.31 U	0.39 U	0.94	0.51 U	0.38 U
Cadmium	0.98 U	0.82 U	1.3 U	0.78 U	0.98 U	0.7 U	1.3 U	0.94 U
Calcium	6,260	820 U	1,300 U	780 U	980 U	700 U	1,300 U	1,270
Chromium	5.1	56.2	6.1	2.7	7.4	10.7	9	5.7
Cobalt	9.8 U	8.2 U	13 U	7.8 U	9.8 U	7 U	13 U	9.4 U
Copper	69.2	54.3	106	59.8	53.4	24.6	13	80
Iron	1,180	7,830	1,990	438	1,150	6,500	2,210	1,290
Lead	121	34.5	67.7	65	45.3	19.2	23.6	76.8
Magnesium	1,320	820 U	1,300 U	780 U	980 U	700 U	1,300 U	940 U
Manganese	12.1	56	41.1	3.5	8.2	11.4	14.2	9.3
Mercury	1.9	0.57	0.44	1.3	0.43	0.2	0.67	1.7
Nickel	7.8 U	9.7	15.7	6.3 U	7.8 U	9	10 U	7.5 U
Potassium	2,000 U	1,600 U	2,600 U	1,600 U	2,000 U	1,400 U	2,600 U	1,900 U
Selenium	11.3	5.5	13	5.1	5.3	4.2	10.6	9.5
Silver	0.98 U	0.82 U	1.3 U	0.78 U	0.98 U	0.7 U	1.3 U	0.94 U
Sodium	3,030	1,600 U	2,600 U	1,860	2,000 U	1,400 U	2,600 U	1,990
Thallium	2 U	1.6 U	2.6 U	1.6 U	2 U	1.4 U	2.6 U	1.9 U
Vanadium	9.8 U	8.2 U	13 U	7.8 U	9.8 U	12.2	13 U	9.4 U
Zinc	4	11.2	20.1	3.1 U	3.9 U	15.7	11.5	5

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Table 5
Metals Sludge Data

Sample ID	IMO1VROO_01_05062010	IMO1HC00_02_05062010	IMO2VR0A_01_04222010	IMO2HC0A_02_04222010	IMO2VR0B_01_04222010	IMO2HC0B_02_04222010	IMO2VROC_01_04262010	IMO2HC0C_02_04262010
Sample Date	5/6/2010	5/6/2010	4/22/2010	4/22/2010	4/22/2010	4/22/2010	4/26/2010	4/26/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	413	786	167	80.6	213	256	159	286
Antimony	4.8 U	4 U	2.1 U	2.1 U	2.1 U	2 U	2 U	2 U
Arsenic	4.8 U	7.3	3.1	2.9	2.6	2.4	2.7	2 U
Barium	48 U	40 U	21 U	21 U	21 U	20 U	20 U	20 U
Beryllium	0.48 U	0.4 U	0.21 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Cadmium	1.2 U	1 U	0.52 U	0.52 U	0.52 U	0.51 U	0.51 U	0.51 U
Calcium	1,200 U	1,000 U	520 U	520 U	520 U	510 U	510 U	510 U
Chromium	4.5	22.8	7.7	3.1	2.2	2.6	1.4	5.2
Cobalt	12 U	10 U	5.2 U	5.2 U	5.2 U	5.1 U	5.1 U	5.1 U
Copper	85.7	78.7	27.8	6.1	16.5	10.4	11.8	10.5
Iron	807	5,030	4,170	1,400	772	786	544	1,210
Lead	91.9	52.5	62.2	9	59.5	67.2	81.8	84.4
Magnesium	1,200 U	1,000 U	520 U	520 U	520 U	510 U	510 U	510 U
Manganese	8.3	33.2	19.3	7.5	6.8	6.3	4.4	7.4
Mercury	1.3	0.32	0.077	0.11	0.082	0.081	0.1	0.19
Nickel	9.7 U	8.1 U	9.9	4.1 U	4.1 U	4.1 U	4 U	6.4
Potassium	2,400 U	2,000 U	1,000 U					
Selenium	10	9.5	5.4	2.1	6.1	5.5	6	4.7
Silver	1.2 U	1 U	0.52 U	0.52 U	0.52 U	0.51 U	0.51 U	0.51 U
Sodium	4,500	3,070	2,680	4,700	3,540	11,400	2,720	4,420
Thallium	2.4 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Vanadium	12 U	10 U	5.2 U	5.2 U	5.2 U	5.1 U	5.1 U	5.1 U
Zinc	6.7	13.8	3.5	2.1 U	2.6	3.4	2 U	2 U

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Table 5
Metals Sludge Data

Sample ID	IMO2VR0D_01_04222010	IMO2HC0D_02_04222010	IMO2VROE_01_04212010	IMO2HC0E_02_04212010	IMO2VR0F_01_04202010	IMO2INOF_02_04212010	IMO2HCOF_03_04212010	IMO2VR0G_01_04262010
Sample Date	4/22/2010	4/22/2010	4/21/2010	4/21/2010	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	219	65.4	123	51.6	287	314	179	186
Antimony	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Arsenic	2.7	3.1	4.8	4.9	5.8	2.7	7.1	2.7
Barium	20 U							
Beryllium	0.2 U							
Cadmium	0.49 U	0.51 U	0.49 U	0.51 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	490 U	510 U	490 U	510 U	500 U	500 U	500 U	500 U
Chromium	3	5	4.8	16.1	2.5	12.4	6.7	3.2
Cobalt	4.9 U	5.1 U	4.9 U	5.1 U	5 U	5 U	5 U	5 U
Copper	14.1	11.5	15.8	23.1	22.8	25.2	10.2	12.6
Iron	903	831	777	2,270	827	2,170	1,310	644
Lead	235	71.5	61.1	42.7	95.8	65.6	32	92.2
Magnesium	490 U	510 U	490 U	510 U	500 U	500 U	500 U	500 U
Manganese	6.7	5.5	6.3	16	7.2	14.3	10.5	5
Mercury	0.13	0.11	0.068	0.064	0.21	0.33	20.9	0.58
Nickel	3.9 U	4.1 U	4 U	4.1 U	4 U	4.1	4 U	4 U
Potassium	980 U	1,000 U	990 U	1,000 U	1,000 U	990 U	1,000 U	990 U
Selenium	5.6	7.2	10.4	9.3	13.3	9.3	10.5	6.8
Silver	0.49 U	0.51 U	0.49 U	0.51 U	0.5 U	0.5 U	0.5 U	0.5 U
Sodium	5,810	2,170	2,400	1,020	3,120	5,490	3,910	2,950
Thallium	0.98 U	1 U	0.99 U	1 U	1 U	0.99 U	1 U	0.99 U
Vanadium	4.9 U	5.1 U	4.9 U	5.1 U	5 U	5 U	5 U	5 U
Zinc	2.6	2 U	2.1	11.2	3.1	13.3	9.9	2 U

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Table 5
Metals Sludge Data

Sample ID	IMO2HC0G 02_04262010	IMO2VROH 01_04272010	IMO2DUP0 01_04272010	IMO2VROI 01_04232010	IMO2HC0I 02_04232010	IMO2VROJ 01_04232010	IMO2HC0J 02_04232010	IMO2VROK 01_04262010
Sample Date	4/26/2010	4/27/2010	4/27/2010	4/23/2010	4/23/2010	4/23/2010	4/23/2010	4/26/2010
Sample Matrix	SL							
Units	mg/kg							
Metals								
Aluminum	870	208	127	156	94	135	70.4	155
Antimony	1.9 U	2 U	2.1 U	2 U	1.9 U	1.9 U	2.1 U	2 U
Arsenic	2.5	3.3	5.3	3.7	2.7	1.9	6.7	2.4
Barium	19 U	20 U	21 U	20 U	19 U	19 U	21 U	20 U
Beryllium	0.19 U	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U	0.21 U	0.2 U
Cadmium	0.49 U	0.5 U	0.52 U	0.5 U	0.48 U	0.48 U	0.52 U	0.51 U
Calcium	490 U	500 U	520 U	500 U	480 U	480 U	520 U	510 U
Chromium	8.1	2.3	1.9	1.2	1.1	1.4	9.3	2.3
Cobalt	4.9 U	5 U	5.2 U	5 U	4.8 U	4.8 U	5.2 U	5.1 U
Copper	16.6	18.7	11.1	13	9.4	11.6	8.8	9.9
Iron	1,030	963	435	385	284	449	226	586
Lead	73.2	24.1	53.6	45.1	31	21.4	29.3	30.7
Magnesium	490 U	500 U	520 U	500 U	480 U	480 U	520 U	510 U
Manganese	8.1	11.1	4.1	3.4	2.5	5.4	2.4	5.2
Mercury	0.43	0.3	0.17	0.65	0.87	0.03 U	0.052	0.79
Nickel	4.7	4	4.2 U	4 U	3.8 U	3.8 U	4.8	4.1 U
Potassium	970 U	1,000 U	1,000 U	990 U	960 U	950 U	1,000 U	1,000 U
Selenium	6.3	4.8	6.9	6	4.5	3.6	9.4	4.7
Silver	0.49 U	0.5 U	0.52 U	0.5 U	0.48 U	0.48 U	0.52 U	0.51 U
Sodium	1,770	1,740	3,160	3,010	1,950	1,470	2,630	2,160
Thallium	0.97 U	1 U	1 U	0.99 U	0.96 U	0.95 U	1 U	1 U
Vanadium	4.9 U	5 U	5.2 U	5 U	4.8 U	4.8 U	5.2 U	5.1 U
Zinc	2.2	3.7	2.1 U	2 U	1.9 U	2.5	2.1 U	2 U

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Table 5
Metals Sludge Data

Sample ID	IM02HCOK 02_04262010	IM02HCOL 02_04272010	IM02VROM 01_04292010	IM02HCOM 02_04292010	IM02VRON 01_04232010	IM02HCON 02_04232010	IM02HCOO 02_04272010		Minimum	Maximum	Mean
Sample Date	4/26/2010	4/27/2010	4/29/2010	4/29/2010	4/23/2010	4/23/2010	4/27/2010				
Sample Matrix	SL										
Units	mg/kg										
Metals											
Aluminum	166	59.5	158	130	181	98.1	68.1	51.6	8,030	600	
Antimony	2.1 U	1.9 U	1.9 U	2 U	2 U	2 U	2 U	1.9	22.3	3	
Arsenic	3.9	2.8	3.6	4.7	2.7	2.6	2 U	1.9	15.8	5	
Barium	21 U	19 U	19 U	20 U	20 U	20 U	20 U	19	81.5	31	
Beryllium	0.21 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19	0.94	0.33	
Cadmium	0.52 U	0.48 U	0.48 U	0.49 U	0.51 U	0.51 U	0.5 U	0.48	1.3	1	
Calcium	520 U	480 U	480 U	490 U	510 U	510 U	500 U	480	183,000	6,953	
Chromium	8.5	4.2	1.2	1	1.8	1.2	6.8	1	56.2	8	
Cobalt	5.2 U	4.8 U	4.8 U	4.9 U	5.1 U	5.1 U	5 U	4.8	13	7	
Copper	8.7	4.9	15	12.2	14.2	8.1	20.1	4.9	148	32	
Iron	798	253	477	380	618	288	609	226	40,900	3,152	
Lead	37.5	29.4	27.1	35.1	26.6	26.3	46.7	7.8	235	59	
Magnesium	520 U	480 U	480 U	490 U	510 U	510 U	500 U	480	117,000	3,662	
Manganese	6.5	2.6	4.8	3.4	8	2.8	6.1	2.4	174	21	
Mercury	0.49	0.08	0.25	0.26	0.039	0.49	0.43	0.03	20.9	1	
Nickel	4.6	3.8 U	3.8 U	3.9 U	4.1 U	4 U	14.2	3.8	70.3	9	
Potassium	1,000 U	960 U	960 U	990 U	1,000 U	1,000 U	990 U	950	2,700	1,351	
Selenium	7.1	6.7	5.6	6	4.6	4.1	5	2	13.3	7	
Silver	0.52 U	0.48 U	0.48 U	0.49 U	0.51 U	0.51 U	0.5 U	0.48	1.3	1	
Sodium	2,920	1,070	2,010	2,240	2,090	1,740	2,870	1,000	11,400	2,631	
Thallium	1 U	0.96 U	0.96 U	0.99 U	1 U	1 U	0.99 U	0.95	5	1	
Vanadium	5.2 U	4.8 U	4.8 U	4.9 U	5.1 U	5.1 U	5 U	4.8	43.3	8	
Zinc	2.7	1.9 U	1.9 U	2 U	2.6	2 U	2 U	1.9	44.8	7	

Notes:

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Wyeth Holdings Corporation
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Table 6
General Chemistry Sludge Data

Sample ID	IM01VR0A 01_04302010	IM01HC0A 02_04302010	IM01CAOP 01_05052010	IM01HC0B 02_05052010	IM01VR0C 01_04302010
Sample Date	4/30/2010	4/30/2010	5/5/2010	5/5/2010	4/30/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	20 U	99 U	1,340	1,170	375
Cyanide (mg/kg)	1.2 U	1.2 U	4.4 U	5.8 U	2 U
Nitrogen, Ammonia (mg/kg)	19.6	12 U	174	147	12 U
Nitrogen, Nitrate (mg/kg)	20 U	19 U	35 U	38 U	20 U
Nitrogen, Nitrate + Nitrite (mg/kg)	20 U	19 U	35 U	38 U	20 U
pH (s.u.)	4.82	1.93	4.68	1.82 J, 35A	1.6
Sulfite (mg/kg)	30 U	30 U	30 U	74 J, 90, 35A	485
Total Phenolics (mg/kg)	8.6	52.9	166	163	84.5
Sulfide (mg/kg)	35.1	21.5	93.2	66 J, B, 2,18	36.6

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Table 6
General Chemistry Sludge Data

Sample ID	IM01VR0D 01_05052010	IM01CA0Q 01_05042010	IM01HC0E 02_05042010	IM01VR0F 01_05042010	IM01HC0F 02_05042010
Sample Date	5/5/2010	5/4/2010	5/4/2010	5/4/2010	5/4/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	27 U	1,050	996	527	1,740
Cyanide (mg/kg)	7.7	4.8 U	2.6 U	0.4 U	5.7 U
Nitrogen, Ammonia (mg/kg)	43.8	207	132	16.5	18 U
Nitrogen, Nitrate (mg/kg)	27 U	40 U	34 U	34 U	48 U
Nitrogen, Nitrate + Nitrite (mg/kg)	27 U	40 U	34 U	34 U	48 U
pH (s.u.)	6.34 J, 35A	7.63	8.96	12.36	0.93
Sulfite (mg/kg)	38 UJ, 90, 35A	116	170	990	94.8
Total Phenolics (mg/kg)	27 U	249	178	32.8	57 U
Sulfide (mg/kg)	82.7 J, 18	N/A	N/A	N/A	N/A

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Table 6
General Chemistry Sludge Data

Sample ID	IM01CA0R 01_05032010	IM01DUP0 01_05032010	IM01HC0G 01_05032010	IM01VR0H 01_04302010	IM01CA0S 01_05052010
Sample Date	5/3/2010	5/3/2010	5/3/2010	4/30/2010	5/5/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	24 U	24 U	26 U	861	374
Cyanide (mg/kg)	2.9 U	2.9 U	10.6	1.7 U	4.3 U
Nitrogen, Ammonia (mg/kg)	8.6 U	13.1	18.9	12 U	31.2
Nitrogen, Nitrate (mg/kg)	23 U	24 U	26 U	19 U	42 U
Nitrogen, Nitrate + Nitrite (mg/kg)	23 U	24 U	26 U	19 U	42 U
pH (s.u.)	5.46	5.69	5.98	1.72	1.01
Sulfite (mg/kg)	30 U	30 U	30 U	30 U	53.7
Total Phenolics (mg/kg)	29 U	21 U	23 U	180	766
Sulfide (mg/kg)	36.7	17.7 J	46.7	24.1	106

Notes:

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Table 6
General Chemistry Sludge Data

Sample ID	IM01HC01_02_05052010	IM01HC01_02_05042010	IM01VROK_01_05062010	IM01HCOK_02_05062010	IM01HCOL_02_05072010
Sample Date	5/5/2010	5/4/2010	5/6/2010	5/6/2010	5/7/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	1,130	894	158	56.3	869
Cyanide (mg/kg)	5.3 U	4.6 U	3.8 U	4.5 U	4 U
Nitrogen, Ammonia (mg/kg)	30	39.5	13 U	29 U	64.3
Nitrogen, Nitrate (mg/kg)	53 U	37 U	31 U	53 U	32 U
Nitrogen, Nitrate + Nitrite (mg/kg)	52 U	37 U	31 U	52 U	32 U
pH (s.u.)	0.88 J, 35A	1.64	1.04	1.89	6.51
Sulfite (mg/kg)	104 J, 35A, 90	76.3	30 U	30 U	49 U
Total Phenolics (mg/kg)	444	290	64.3	84.2	328
Sulfide (mg/kg)	48.4 J,B, 2,9,18	N/A	54.1	62.9	N/A

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Table 6
General Chemistry Sludge Data

Sample ID Sample Date Sample Matrix	IM01HCOL 03_05072010 5/7/2010 SL	IM01VR0M 01_05052010 5/5/2010 SL	IM01HC0M 02_05052010 5/5/2010 SL	IM01HC0N 02_05042010 5/4/2010 SL	IM01VR0O 01_05062010 5/6/2010 SL
General Chemistry					
Chloride (mg/kg)	540	27 U	2,270	506	1,790
Cyanide (mg/kg)	3.5 U	2.7 U	7.6 U	3.7 U	4.7 U
Nitrogen, Ammonia (mg/kg)	49 U	15 U	22 U	48.9	22.4
Nitrogen, Nitrate (mg/kg)	40 U	28 U	54 U	37 U	47 U
Nitrogen, Nitrate + Nitrite (mg/kg)	40 U	28 U	53 U	37 U	47 U
pH (s.u.)	0.94	3.45	0.71	1.93	1.22
Sulfite (mg/kg)	186	30 U	755	30 U	128
Total Phenolics (mg/kg)	62.9	33 U	64.3	179	319
Sulfide (mg/kg)	40.8	34	66.2	N/A	52.6

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 Impoundments 1 and 2 Characterization Program
Table 6
General Chemistry Sludge Data

Sample ID	IM01HC00 02_05062010	IM02VR0A 01_04222010	IM02HC0A 02_04222010	IM02VR0B 01_04222010	IM02HC0B 02_04222010
Sample Date	5/6/2010	4/22/2010	4/22/2010	4/22/2010	4/22/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	2,190	53.6	3,460	268	220
Cyanide (mg/kg)	3.6 U	0.59	0.46 U	1.3	0.46 U
Nitrogen, Ammonia (mg/kg)	23 U	60 U	13 U	67 U	55 U
Nitrogen, Nitrate (mg/kg)	43 U	19 U	19 U	19 U	20 U
Nitrogen, Nitrate + Nitrite (mg/kg)	43 U	19 U	19 U	19 U	20 U
pH (s.u.)	0.56	2.03	1.1	1.54	2.04
Sulfite (mg/kg)	30 U	30 U	145	170	322
Total Phenolics (mg/kg)	124	21.5	34.1	275	223
Sulfide (mg/kg)	28.5 J	29.5	31.2	26.2	30.6

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 Impoundments 1 and 2 Characterization Program
Table 6
General Chemistry Sludge Data

Sample ID	IM02VR0C 01_04262010	IM02HC0C 02_04262010	IM02VROD 01_04222010	IM02HC0D 02_04222010	IM02VR0E 01_04212010
Sample Date	4/26/2010	4/26/2010	4/22/2010	4/22/2010	4/21/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	76.3	2,190	672	507	680
Cyanide (mg/kg)	2 U	2 U	0.41 U	0.44	0.35 U
Nitrogen, Ammonia (mg/kg)	55 U	9.2 U	60 U	60 U	9.5
Nitrogen, Nitrate (mg/kg)	19 U	20 U	19 U	19 U	29 U
Nitrogen, Nitrate + Nitrite (mg/kg)	19 U	20 U	19 U	19 U	29 U
pH (s.u.)	1.36	0.3	1.31	1.19	1.09
Sulfite (mg/kg)	455	1,030	195	161	453
Total Phenolics (mg/kg)	143	26.9	32.1	55.2	88.1
Sulfide (mg/kg)	N/A	95.7	225	11 J	N/A

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Table 6
General Chemistry Sludge Data

Sample ID	IM02HCOE 02_04212010	IM02VR0F 01_04202010	IM02INOF 02_04212010	IM02HC0F 03_04212010	IM02VR0G 01_04262010
Sample Date	4/21/2010	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	253	282	578	5,460	100
Cyanide (mg/kg)	0.33 U	0.4 U	0.39 U	0.48 U	2.4 U
Nitrogen, Ammonia (mg/kg)	5.2	8.7	3.4 U	21.4	57.6
Nitrogen, Nitrate (mg/kg)	30 U	35 U	32 U	42 U	19 U
Nitrogen, Nitrate + Nitrite (mg/kg)	30 U	35 U	32 U	42 U	19 U
pH (s.u.)	1.45	1.76	1.08	0.66	1.57
Sulfite (mg/kg)	45.4	269	441	1,020	376
Total Phenolics (mg/kg)	84.6	47.6	69.1	127	187
Sulfide (mg/kg)	N/A	N/A	N/A	N/A	N/A

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Table 6
General Chemistry Sludge Data

Sample ID	IM02HC0G 02_04262010	IM02VR0H 01_04272010	IM02DUP0 01_04272010	IM02VROI 01_04232010	IM02HC0I 02_04232010
Sample Date	4/26/2010	4/27/2010	4/27/2010	4/23/2010	4/23/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	831	217	201	183	106
Cyanide (mg/kg)	1.7 U	1.7 U	2.4 U	0.41 U	0.46 U
Nitrogen, Ammonia (mg/kg)	20 U	39.8	17 U	150 U	150 U
Nitrogen, Nitrate (mg/kg)	19 U	20 U	19 U	19 U	20 U
Nitrogen, Nitrate + Nitrite (mg/kg)	19 U	20 U	19 U	19 U	20 U
pH (s.u.)	0.64	1.54 J, 90, 35A	2.13	2.19	2.22
Sulfite (mg/kg)	785	36.8 J, 35A	195 J, 90	163	157
Total Phenolics (mg/kg)	14.8	90.3	90	107	93.8
Sulfide (mg/kg)	53.2	799 J, 35A, 18	N/A	N/A	N/A

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Table 6
General Chemistry Sludge Data

Sample ID	IM02VROJ 01_04232010	IM02HC0J 02_04232010	IM02VROK 01_04262010	IM02HCOK 02_04262010	IM02HCOL 02_04272010
Sample Date	4/23/2010	4/23/2010	4/26/2010	4/26/2010	4/27/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	41	488	79.1	7,010	217
Cyanide (mg/kg)	0.46 U	0.5 U	2.4 U	2 U	2.4 U
Nitrogen, Ammonia (mg/kg)	55 U	13 U	55 U	17 U	24 U
Nitrogen, Nitrate (mg/kg)	19 U	20 U	20 U	39 U	20 U
Nitrogen, Nitrate + Nitrite (mg/kg)	19 U	20 U	20 U	39 U	20 U
pH (s.u.)	1.62	1.23	1.25	0.52	1.29 J, 35A
Sulfite (mg/kg)	30 U	225	30 U	559	597 J, 90, 35A
Total Phenolics (mg/kg)	45.2	42.4	151	55.3	60.3
Sulfide (mg/kg)	34.7	N/A	N/A	512	61.3 J, 35A, 18

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Table 6
General Chemistry Sludge Data

Sample ID	IM02VR0M 01_04292010	IM02HCOM 02_04292010	IM02VR0N 01_04232010	IM02HC0N 02_04232010	IM02HCOO 02_04272010
Sample Date	4/29/2010	4/29/2010	4/23/2010	4/23/2010	4/27/2010
Sample Matrix	SL	SL	SL	SL	SL
General Chemistry					
Chloride (mg/kg)	53.9	71.4	40.9	43.1	252
Cyanide (mg/kg)	1.7 U	2.4 U	0.44 U	0.43 U	2.4 U
Nitrogen, Ammonia (mg/kg)	31.9	25.5	55 U	55 U	17 U
Nitrogen, Nitrate (mg/kg)	19 U	20 U	20 U	19 U	19 U
Nitrogen, Nitrate + Nitrite (mg/kg)	19 U	20 U	20 U	19 U	19 U
pH (s.u.)	1.81	1.81	2.2	2.33	1.07 J, 90, 35A
Sulfite (mg/kg)	30 U	47.4	30 U	57.9	1,230 J, 35A
Total Phenolics (mg/kg)	126	182	91.9	279	20.4
Sulfide (mg/kg)	N/A	N/A	N/A	N/A	235 J, 35A, 18

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 Impoundments 1 and 2 Characterization Program
Table 6
General Chemistry Sludge Data

Sample ID Sample Date Sample Matrix	Minimum	Maximum	Mean
General Chemistry			
Chloride (mg/kg)	20	7010	795
Cyanide (mg/kg)	0.33	10.6	3
Nitrogen, Ammonia (mg/kg)	3.4	207	44
Nitrogen, Nitrate (mg/kg)	19	54	28
Nitrogen, Nitrate + Nitrite (mg/kg)	19	53	28
pH (s.u.)	0.3	12.36	2 ^
Sulfite (mg/kg)	30	1230	236
Total Phenolics (mg/kg)	8.6	766	125
Sulfide (mg/kg)	11	799	97

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 Impoundments 1 and 2 Characterization Program
Table 7
Aldehydes and Explosives Sludge Data

Sample ID	IMO1CAOP 01_05052010	IMO1VR0F 01_05042010	IMO1DUP0 01_05032010	IMO1HCOG 01_05032010	IMO1HC0L 03_05072010
Sample Date	5/5/2010	5/4/2010	5/3/2010	5/3/2010	5/7/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
Aldehydes					
Acetaldehyde	1,940	1,400 U	960 U	1,100 U	359 J
Formaldehyde	703 JB	1,400 U	4,340	26,500	561 J
Explosives					
1,3,5-Trinitrobenzene	18,000 U	900 U	170 U	150 U	7,900 U
2,4,6-Trinitrotoluene	18,000 U	900 U	170 UJ	150 UJ	7,900 U
2-Amino-4,6-dinitrotoluene	18,000 U	900 U	170 U	150 U	7,900 U
2-Nitrotoluene	18,000 U	900 U	170 U	150 U	7,900 U
3-Nitrotoluene	18,000 U	900 U	170 U	150 U	7,900 U
4-Amino-2,6-dinitrotoluene	18,000 U	900 U	170 U	150 U	7,900 U
4-Nitrotoluene	18,000 U	900 U	170 U	150 U	7,900 U
M-Dinitrobenzene	18,000 U	900 U	170 U	150 U	7,900 U
HMX	18,000 U	900 U	170 U	150 U	7,900 U
RDX (Cyclonite)	18,000 U	900 U	170 U	150 U	7,900 U
Tetryl	18,000 U	900 U	170 U	150 U	7,900 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in

associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

39=The reported concentration is quantitative qualified because the concentration is below the CRQL.
 2=The value reported is greater than three (3) times but less than or equal to 10 times the value in the method blank/preparation blank and is considered "real".

81B=Results are qualified due to surrogate analysis excursion

35A=Result was qualified due to a holding time excursion

91=Results are qualified due to calibration excursions.

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 7
Aldehydes and Explosives Sludge Data

Sample ID	IM01HC00 02_05062010	IM02VR0F 01_04202010	IM02INOF 02_04212010	IM02VR0H 01_04272010	IM02DUP0 01_04272010
Sample Date	5/6/2010	4/20/2010	4/21/2010	4/27/2010	4/27/2010
Sample Matrix Units	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg	SL ug/kg
Aldehydes					
Acetaldehyde	1,700 U	467 J	296 J	553 J,8,2,39,818,35A,91	420 J 39
Formaldehyde	1,700 U	1,660 J	1,120 J	690 J,8,2,39,818,35A	545 J 39
Explosives					
1,3,5-Trinitrobenzene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
2,4,6-Trinitrotoluene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
2-Nitrotoluene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
3-Nitrotoluene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
4-Amino-2,6-dinitrotoluene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
4-Nitrotoluene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
M-Dinitrobenzene	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
HMX	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
RDX (Cyclonite)	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U
Tetryl	17,000 U	19,000 U	17,000 U	14,000 U	15,000 U

Notes:

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Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 7
Aldehydes and Explosives Sludge Data

Sample ID	IM02VR0K 01_04262010	IM02HCOO 02_04272010	Minimum	Maximum	Mean
Sample Date	4/26/2010	4/27/2010			
Sample Matrix Units	SL ug/kg	SL ug/kg			
Aldehydes					
Acetaldehyde	247 J	800 U	247	1,940	854
Formaldehyde	362 J	800 U	362	26,500	3,365
Explosives					
1,3,5-Trinitrobenzene	3,500 U	9,400 U	150	19,000	10,168
2,4,6-Trinitrotoluene	3,500 U	9,400 U	150	19,000	10,168
2-Amino-4,6-dinitrotoluene	3,500 U	9,400 U	150	19,000	10,168
2-Nitrotoluene	3,500 U	9,400 U	150	19,000	10,168
3-Nitrotoluene	3,500 U	9,400 U	150	19,000	10,168
4-Amino-2,6-dinitrotoluene	3,500 U	9,400 U	150	19,000	10,168
4-Nitrotoluene	3,500 U	9,400 U	150	19,000	10,168
M-Dinitrobenzene	3,500 U	9,400 U	150	19,000	10,168
HMX	3,500 U	9,400 U	150	19,000	10,168
RDX (Cyclonite)	3,500 U	9,400 U	150	19,000	10,168
Tetryl	3,500 U	9,400 U	150	19,000	10,168

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91=Results are qualified due to calibration excursions.

Wyeth Holdings Corporation
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Table 8

PCBs Sludge Data

Sample ID	IM01HC0E 02_05042010	IM01VR0M 01_05052010	IM01HC0N 02_05042010	IM02VR0H 01_04272010	IM02DUP0 01_04272010
Sample Date	5/4/2010	5/5/2010	5/4/2010	4/27/2010	4/27/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
PCBs					
Aroclor-1016 (PCB-1016)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1221 (PCB-1221)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1232 (PCB-1232)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1242 (PCB-1242)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1248 (PCB-1248)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1254 (PCB-1254)	50 U	40 U	180 U	9.8 U	9.8 U
Aroclor-1260 (PCB-1260)	50 U	40 U	180 U	9.8 U	9.8 U

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Table 8

PCBs Sludge Data

Sample ID	IM02HCOL 02_04272010	Minimum	Maximum	Mean
Sample Date	4/27/2010			
Sample Matrix Units	SL ug/kg			
PCBs				
Aroclor-1016 (PCB-1016)	9.8 U	9.8	180	49.9
Aroclor-1221 (PCB-1221)	9.8 U	9.8	180	49.9
Aroclor-1232 (PCB-1232)	9.8 U	9.8	180	49.9
Aroclor-1242 (PCB-1242)	9.8 U	9.8	180	49.9
Aroclor-1248 (PCB-1248)	9.8 U	9.8	180	49.9
Aroclor-1254 (PCB-1254)	9.8 U	9.8	180	49.9
Aroclor-1260 (PCB-1260)	9.8 U	9.8	180	49.9

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Table 9
PCB Congeners Sludge Data

Sample ID	IM01VROD 01_05052010	IM01HCOE 02_05042010	IM02VROE 01_04212010
Sample Date	5/5/2010	5/4/2010	4/21/2010
Sample Matrix	SL	SL	SL
Units	pg/g	pg/g	pg/g
PCB Congeners			
Total Deca PCBs	1,260 U	16,200 U	16,100 U
Total Di PCBs	1,920 J 4	16,200 U	16,100 U
Total Hepta PCBs	1,260 U	16,200 U	16,100 U
Total Hexa PCBs	2,550	32,100	16,100 U
Total Mono PCBs	1,260 U	20,200	16,100 U
Total Nona PCBs	1,260 U	16,200 U	16,100 U
Total Octa PCBs	1,260 U	16,200 U	16,100 U
Total Penta PCBs	3,230	45,300	16,100 U
Total Tetra PCBs	1,330	32,400	16,100 U
Total Tri PCBs	1,260 U	16,200 U	16,100 U

Notes:

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4 = The value reported is greater than three (3) times the value in the trip/field blank but less than or equal to 10 times the value in the trip/field blank but less than or equal to 10 times the value in the blank and is considered "real".

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 9
PCB Congeners Sludge Data

	Sample ID Sample Date	IM02HCOE 02_04212010 4/21/2010	IM02VR0F 01_04202010 4/20/2010	IM02INOF 02_04212010 4/21/2010
	Sample Matrix Units	SL pg/g	SL pg/g	SL pg/g
PCB Congeners				
Total Deca PCBs		16,000 U	25,900 U	15,400 U
Total Di PCBs		16,000 U	25,900 U	15,400 U
Total Hepta PCBs		16,000 U	25,900 U	15,400 U
Total Hexa PCBs		16,000 U	25,900 U	15,400 U
Total Mono PCBs		16,000 U	25,900 U	15,400 U
Total Nona PCBs		16,000 U	25,900 U	15,400 U
Total Octa PCBs		16,000 U	25,900 U	15,400 U
Total Penta PCBs		16,000 U	25,900 U	15,400 U
Total Tetra PCBs		16,000 U	25,900 U	15,400 U
Total Tri PCBs		16,000 U	25,900 U	15,400 U

Notes:

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Wyeth Holdings Corporation
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 Impoundments 1 and 2 Characterization Program
Table 9
PCB Congeners Sludge Data

Sample ID	IM02HCOF 03_04212010	Minimum	Maximum	Mean
Sample Date	4/21/2010			
Sample Matrix	SL			
Units	pg/g			
PCB Congeners				
Total Deca PCBs	22,800 U	1,260	25,900	16,237
Total Di PCBs	22,800 U	1,920	25,900	16,331
Total Hepta PCBs	22,800 U	1,260	25,900	16,237
Total Hexa PCBs	22,800 U	2,550	32,100	18,693
Total Mono PCBs	22,800 U	1,260	25,900	16,809
Total Nona PCBs	22,800 U	1,260	25,900	16,237
Total Octa PCBs	22,800 U	1,260	25,900	16,237
Total Penta PCBs	22,800 U	3,230	45,300	20,676
Total Tetra PCBs	22,800 U	1,330	32,400	18,561
Total Tri PCBs	22,800 U	1,260	25,900	16,237

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 Impoundments 1 and 2 Characterization Program
Table 10
Alcohols Sludge Data

Sample ID	IM01VR0A 01_04302010	Sample Date	4/30/2010	Sample Matrix	IM01HC0A 02_04302010	Sample Date	4/30/2010	Sample Matrix	IM01CA0P 01_05052010	Sample Date	5/5/2010	Sample Matrix	IM01HC0B 02_05052010	Sample Date	5/5/2010	Sample Matrix	IM01VROC 01_04302010	Sample Date	4/30/2010
Sample Matrix	SL	Units	ug/kg	Sample Matrix	SL	Units	ug/kg	Sample Matrix	SL	Units	ug/kg	Sample Matrix	SL	Units	ug/kg	Sample Matrix	SL	Units	ug/kg
Alcohols																			
2-Methyl-1-Propanol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U
Ethanol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U
Isopropyl Alcohol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U
Methanol	4,000	U			9,490			380,000	U		390,000	U		390,000	U		200,000	U	
N-Butyl Alcohol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U
N-Propyl Alcohol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U
sec-Butyl Alcohol	2,000	U		2,000	U		2,000	U	190,000	U		190,000	U		190,000	U		100,000	U

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Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 10

Alcohols Sludge Data

Sample ID	IM01VR0D 01_05052010	IM01CA0Q 01_05042010	IM01HC0E 02_05042010	IM01VR0F 01_05042010	IM01HC0F 02_05042010
Sample Date	5/5/2010	5/4/2010	5/4/2010	5/4/2010	5/4/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U
Ethanol	130,000 U	200,000 U	180,000 U	170,000 U	28,700
Isopropyl Alcohol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U
Methanol	270,000 U	410,000 U	350,000 U	340,000 U	65,900
N-Butyl Alcohol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U
N-Propyl Alcohol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U
sec-Butyl Alcohol	130,000 U	200,000 U	180,000 U	170,000 U	4,900 U

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 Impoundments 1 and 2 Characterization Program

Table 10

Alcohols Sludge Data

Sample ID	IM01CA0R 01_05032010	IM01DUP0 01_05032010	IM01HCOG 01_05032010	IM01VR0H 01_04302010	IM01CA0S 01_05052010
Sample Date	5/3/2010	5/3/2010	5/3/2010	4/30/2010	5/5/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
Ethanol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
Isopropyl Alcohol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
Methanol	4,900 U	4,800 U	5,500 U	200,000 U	430,000 U
N-Butyl Alcohol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
N-Propyl Alcohol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U
sec-Butyl Alcohol	2,400 U	2,400 U	2,800 U	100,000 U	220,000 U

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Wyeth Holdings Corporation
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 Impoundments 1 and 2 Characterization Program
Table 10
Alcohols Sludge Data

Sample ID	IM01HC01 02_05052010	Sample Date	5/5/2010	Sample Matrix	IM01HC0J 02_05042010	Sample Date	5/4/2010	Sample Matrix	IM01VR0K 01_05062010	Sample Date	5/6/2010	Sample Matrix	IM01HC0K 02_05062010	Sample Date	5/6/2010	Sample Matrix	IM01HC0L 02_05072010	Sample Date	5/7/2010
Sample ID		Sample Date	<th>Sample Matrix</th> <td></td> <th>Sample Date</th> <td></td>	Sample Matrix		Sample Date													
Units	ug/kg	SL		Units	ug/kg	SL		Units	ug/kg	SL		Units	ug/kg	SL		Units	ug/kg	SL	
Alcohols																			
2-Methyl-1-Propanol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		
Ethanol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		
Isopropyl Alcohol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		
Methanol	530,000 U				390,000 U				310,000 U				550,000 U				340,000 U		
N-Butyl Alcohol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		
N-Propyl Alcohol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		
sec-Butyl Alcohol	260,000 U				200,000 U				160,000 U				270,000 U				170,000 U		

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Wyeth Holdings Corporation
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Table 10
Alcohols Sludge Data

Sample ID	IM01HCOL 03_05072010	Sample Date	5/7/2010	Sample Matrix	IM01VR0M 01_05052010	Units	SL	Sample ID	IM01HCOM 02_05052010	Sample Date	5/5/2010	Sample Matrix	IM01HCON 02_05042010	Units	SL	Sample ID	IM01VR0O 01_05062010	Sample Date	5/6/2010
							ug/kg							ug/kg					
Alcohols																			
2-Methyl-1-Propanol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			
Ethanol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			
Isopropyl Alcohol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			
Methanol	410,000 U				280,000 U				520,000 U				370,000 U			470,000 U			
N-Butyl Alcohol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			
N-Propyl Alcohol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			
sec-Butyl Alcohol	200,000 U				140,000 U				260,000 U				180,000 U			230,000 U			

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Wyeth Holdings Corporation
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 Impoundments 1 and 2 Characterization Program

Table 10

Alcohols Sludge Data

Sample ID	IM01HC00 02_05062010	IM02VR0A 01_04222010	IM02HC0A 02_04222010	IM02VR0B 01_04222010	IM02HC0B 02_04222010
Sample Date	5/6/2010	4/22/2010	4/22/2010	4/22/2010	4/22/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U
Ethanol	210,000 U	2,600 U	34,600	5,000 U	5,000 U
Isopropyl Alcohol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U
Methanol	420,000 U	14,900	130,000	62,100	83,700
N-Butyl Alcohol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U
N-Propyl Alcohol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U
sec-Butyl Alcohol	210,000 U	2,600 U	5,100 U	5,000 U	5,000 U

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Table 10

Alcohols Sludge Data

Sample ID	IM02VR0C 01_04262010	IM02HC0C 02_04262010	IM02VR0D 01_04222010	IM02HC0D 02_04222010	IM02VROE 01_04212010
Sample Date	4/26/2010	4/26/2010	4/22/2010	4/22/2010	4/21/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U
Ethanol	100,000 U	100,000 U	5,200 U	3,190	3,030
Isopropyl Alcohol	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U
Methanol	200,000 U	344,000	14,500	54,800	27,200
N-Butyl Alcohol	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U
N-Propyl Alcohol	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U
sec-Butyl Alcohol	100,000 U	100,000 U	5,200 U	2,000 U	2,900 U

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Wyeth Holdings Corporation
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Table 10

Alcohols Sludge Data

Sample ID	IM02HC0E 02_04212010	IM02VROF 01_04202010	IM02INOF 02_04212010	IM02HC0F 03_04212010	IM02VROG 01_04262010
Sample Date	4/21/2010	4/20/2010	4/21/2010	4/21/2010	4/26/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	3,000 U	3,600 U	8,000 U	11,000 U	100,000 U
Ethanol	6,020	3,600 U	15,500	20,600	100,000 U
Isopropyl Alcohol	6,150	3,600 U	8,000 U	11,000 U	100,000 U
Methanol	50,900	17,900	289,000	253,000	200,000 U
N-Butyl Alcohol	3,000 U	3,600 U	8,000 U	11,000 U	100,000 U
N-Propyl Alcohol	3,000 U	3,600 U	8,000 U	11,000 U	100,000 U
sec-Butyl Alcohol	3,000 U	3,600 U	8,000 U	11,000 U	100,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 10

Alcohols Sludge Data

Sample ID	IM02HC0G 02_04262010	IM02VR0H 01_04272010	IM02DUP0 01_04272010	IM02VR0I 01_04232010	IM02HC0I 02_04232010
Sample Date	4/26/2010	4/27/2010	4/27/2010	4/23/2010	4/23/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
Ethanol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
Isopropyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
Methanol	200,000 U	210,000 U	200,000 U	23,700	10,000 U
N-Butyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
N-Propyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U
sec-Butyl Alcohol	100,000 U	100,000 U	100,000 U	4,900 U	5,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

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Table 10

Alcohols Sludge Data

Sample ID	IM02VROJ 01_04232010	IM02HC0J 02_04232010	IM02VROK 01_04262010	IM02HC0K 02_04262010	IM02HC0L 02_04272010
Sample Date	4/23/2010	4/23/2010	4/26/2010	4/26/2010	4/27/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	2,100 U	2,000 U	100,000 U	100,000 U	100,000 U
Ethanol	2,100 U	13,300	100,000 U	100,000 U	100,000 U
Isopropyl Alcohol	2,100 U	4,510	100,000 U	100,000 U	100,000 U
Methanol	4,200 U	11,400	200,000 U	210,000 U	210,000 U
N-Butyl Alcohol	2,100 U	2,000 U	100,000 U	100,000 U	100,000 U
N-Propyl Alcohol	2,100 U	2,000 U	100,000 U	100,000 U	100,000 U
sec-Butyl Alcohol	2,100 U	2,000 U	100,000 U	100,000 U	100,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

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Table 10
Alcohols Sludge Data

Sample ID	IM02VROM 01_04292010	IM02HC0M 02_04292010	IM02VRON 01_04232010	IM02HCON 02_04232010	IM02HC0O 02_04272010
Sample Date	4/29/2010	4/29/2010	4/23/2010	4/23/2010	4/27/2010
Sample Matrix	SL	SL	SL	SL	SL
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Alcohols					
2-Methyl-1-Propanol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
Ethanol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
Isopropyl Alcohol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
Methanol	200,000 U	200,000 U	10,000 U	10,000 U	285,000
N-Butyl Alcohol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
N-Propyl Alcohol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U
sec-Butyl Alcohol	98,000 U	98,000 U	5,000 U	5,000 U	100,000 U

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

Wyeth Holdings Corporation
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Table 10
Alcohols Sludge Data

Sample ID Sample Date Sample Matrix Units	Minimum	Maximum	Mean
Alcohols			
2-Methyl-1-Propanol	2,000	270,000	91,816
Ethanol	2,000	270,000	93,381
Isopropyl Alcohol	2,000	270,000	91,919
Methanol	4,000	550,000	206,925
N-Butyl Alcohol	2,000	270,000	91,816
N-Propyl Alcohol	2,000	270,000	91,816
sec-Butyl Alcohol	2,000	270,000	91,816

Notes:

U=Not detected

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N/A = Indicates data is not available

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 11
Impoundment 1 Statistical Summary

Parameter	CAS #	Number of Valid Samples	Number of Unique Samples ^a	Detects ^a	Minimum Detected ^b	Maximum Detected ^b	Mean ^b	Standard Deviation ^b	Mean + 1 Std. Dev. ^b	Coefficient of Variation ^b	Skewness ^b	95% UCL ^b	Method ^b
Volatile Organic Compounds (VOCs) - ug/kg													
1,2-Dichlorobenzene	95-50-1	25	24	25	3,390	2,550,000	761,381	687,954	1,449,335	0.904	1.081	2,130,392	Use 99% Chebyshev (Mean, Sd) UCL
1,3,5-Trimethylbenzene	108-67-8	25	24	24	2,300	1,110,000	347,202	320,227	667,429	0.922	0.948	984,445	Use 99% Chebyshev (Mean, Sd) UCL
1,3-Dichlorobenzene	541-73-1	25	5	5	153	1,200,000	292,545	332,982	625,527	1.138	1.251	567,505	Use 95% Adjusted Gamma UCL
1,4-Dichlorobenzene	106-46-7	25	18	18	197	850,000	195,197	283,453	478,650	1.452	1.548	377,114	Use 95% Adjusted Gamma UCL
Acetone	67-64-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	25	24	25	78,500	207,000,000	47,762,304	58,054,409	105,816,713	1.215	1.567	88,212,763	Use 95% Adjusted Gamma UCL
Carbon Disulfide	75-15-0	25	14	14	100	1,200,000	195,466	262,019	457,485	1.34	2.506	364,565	Use 95% Adjusted Gamma UCL
Chlorobenzene	108-90-7	25	16	17	233	2,400,000	499,194	640,422	1,139,616	1.283	1.671	996,494	Use 95% Adjusted Gamma UCL
Chloromethane	74-87-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	1735-17-7	25	2	2	1,000	1,200,000	301,640	328,184	629,824	1.088	1.243	521,507	Use 95% Approximate Gamma UCL
Ethanol	64-17-5	25	1	1	1,000	135,000	76,532	41,833	118,365	0.547	-0.731	159,779	Use 99% Chebyshev (Mean, Sd) UCL
Ethylbenzene	100-41-4	25	25	25	1,480	529,000	168,443	155,607	324,050	0.924	0.718	275,372	Use 95% Approximate Gamma UCL
Isopropylbenzene	98-82-8	25	25	25	6,580	1,710,000	531,564	531,072	1,062,636	0.999	0.972	859,925	Use 95% Approximate Gamma UCL
m,p-Xylene	XYLMP	25	25	25	439	5,610,000	1,923,598	1,728,049	3,651,647	0.898	0.605	3,261,955	Use 95% Approximate Gamma UCL
Methanol	67-56-1	25	2	2	2,000	275,000	154,504	83,508	238,012	0.54	-0.698	320,683	Use 99% Chebyshev (Mean, Sd) UCL
Methyl Acetate	79-20-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MethylCyclohexane	108-87-2	25	6	6	2,400	1,200,000	303,129	326,802	629,931	1.078	1.257	496,447	Use 95% Approximate Gamma UCL
o-Xylene	95-47-6	25	24	25	4,060	1,340,000	477,514	419,095	896,609	0.878	0.604	771,219	Use 95% Approximate Gamma UCL
Toluene	108-88-3	25	25	25	1,440	40,700,000	11,425,122	12,264,223	23,689,345	1.073	1.114	21,206,257	Use 95% Adjusted Gamma UCL
Xylene (Total)	1330-20-7	25	25	25	4,500	6,910,000	2,400,192	2,142,678	4,542,870	0.893	0.595	3,979,395	Use 95% Approximate Gamma UCL
Semivolatiles Organic Compounds (SVOCs) - ug/kg													
1,1'-Biphenyl	92-52-4	25	24	24	147	135,000	30,107	32,436	62,543	1.077	1.778	46,886	Use 95% Approximate Gamma UCL
1,2-Dichlorobenzene	95-50-1	25	24	25	3,390	2,550,000	761,381	687,954	1,449,335	0.904	1.081	2,130,392	Use 99% Chebyshev (Mean, Sd) UCL
1,2-Diphenylhydrazine	122-66-7	25	1	1	28.5	11,800	1,951	3,306	5,257	1.695	2.12	4,833	Use 95% Chebyshev (Mean, Sd) UCL
1,4-Dichlorobenzene	106-46-7	25	18	18	197	850,000	195,197	283,453	478,650	1.452	1.548	377,114	Use 95% Adjusted Gamma UCL
2,4-Dimethylphenol	105-67-9	25	21	21	70	87,800	19,521	25,164	44,685	1.289	1.775	32,799	Use 95% Approximate Gamma UCL
2-Chloronaphthalene	91-58-7	25	23	23	81.1	101,000	20,674	26,060	46,734	1.261	1.848	34,286	Use 95% Approximate Gamma UCL
2-Methylnaphthalene	91-57-6	25	25	25	506	678,000	174,110	171,242	345,352	0.984	1.311	275,975	Use 95% Approximate Gamma UCL
2-Methylphenol	95-48-7	25	13	13	28.5	43,400	8,015	10,833	18,848	1.352	1.756	15,189	Use 95% Adjusted Gamma UCL
3 & 4-Methylphenol	34METHYL	25	20	20	28.5	236,000	46,845	63,725	110,570	1.36	1.622	92,847	Use 95% Adjusted Gamma UCL
Acenaphthene	83-32-9	25	11	11	14	25,600	6,449	7,660	14,109	1.188	1.062	11,950	Use 95% Adjusted Gamma UCL
Acenaphthylene	208-96-8	25	4	4	14	40,600	2,945	8,117	11,062	2.756	4.509	10,021	Use 95% Chebyshev (Mean, Sd) UCL
Acetophenone	98-86-2	25	25	25	94.3	1,190,000	275,708	341,652	617,360	1.239	1.556	519,995	Use 95% Adjusted Gamma UCL
Aniline	62-53-3	25	25	25	189	6,030,000	672,158	1,237,244	1,909,402	1.841	3.645	1,365,401	Use 95% Adjusted Gamma UCL
Anthracene	120-12-7	25	5	5	14	103,000	6,502	20,735	27,237	3.189	4,563	32,400	Use 97.5% Chebyshev (Mean, Sd) UCL
Benzidine	92-87-5	25	1	1	285	95,000	15,607	25,872	41,479	1.658	2.427	38,162	Use 95% Chebyshev (Mean, Sd) UCL
Benzo(a)Anthracene	56-55-3	25	13	13	89.1	87,300	7,522	17,662	25,184	2.348	4.175	14,472	Use 95% Adjusted Gamma UCL
Benzo(a)Pyrene	50-32-8	25	9	9	47.6	77,900	5,731	15,743	21,474	2.747	4.373	19,456	Use 95% Chebyshev (Mean, Sd) UCL
Benzo(b)Fluoranthene.	205-99-2	25	9	9	14	74,700	7,314	15,367	22,681	2.101	3.809	14,541	Use 95% Adjusted Gamma UCL
Benzo(g,h,i)Perylene	191-24-2	25	9	9	14	39,300	3,885	7,992	11,877	2.057	3.94	7,221	Use 95% Adjusted Gamma UCL
Benzo(k)Fluoranthene	207-08-9	25	9	9	14	49,400	5,156	10,268	15,424	1.991	3.649	9,793	Use 95% Adjusted Gamma UCL
Benzoic acid	65-85-0	25	18	18	285	1,410,000	298,767	410,639	709,406	1.374	1.608	602,062	Use 95% Adjusted Gamma UCL
bis(2-Ethylhexyl)adipate	103-23-1	25	8	8	28.5	157,000	11,786	31,426	43,212	2.666	4.457	24,703	Use 95% Adjusted Gamma UCL
bis(2-Ethylhexyl)Phthalate	117-81-7	25	1	1	28.5	9,500	1,550	2,592	4,142	1.672	2.424	4,364	Use 95% H-UCL
Carbazole	86-74-8	25	4	4	28.5	46,500	3,880	9,319	13,199	2.402	4.314	12,004	Use 95% Chebyshev (Mean, Sd) UCL
Chrysene	218-01-9	25	13	13	78.9	86,600	7,392	17,389	24,781	2.353	4.27	14,081	Use 95% Adjusted Gamma UCL
Dibenzo(a,h)Anthracene	53-70-3	25	4	4	14	18,200	1,864	3,774	5,638	2.025	3.693	5,155	Use 95% Chebyshev (Mean, Sd) UCL
Dibenzofuran	132-64-9	25	25	25	184	94,100	29,591	25,651	55,242	0.867	0.964	44,214	Use 95% Approximate Gamma UCL
Dimethyl Phthalate	131-11-3	25	6	6	28.5	86,700	11,171	22,542	33,713	2.018	2.344	39,326	Use 97.5% Chebyshev (Mean, Sd) UCL
Fluoranthene	206-44-0	25	22	22	315	262,000	22,127	52,732	74,859	2.383	4.285	54,056	Use 95% H-UCL
Fluorene	86-73-7	25	3	3	14	101,000	6,221	20,951	27,172	3.368	4.294	32,389	Use 97.5% Chebyshev (Mean, Sd) UCL

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 11
Impoundment 1 Statistical Summary

Parameter	CAS #	Number of Valid Samples	Number of Unique Samples ^a	Detects ^a	Minimum Detected ^b	Maximum Detected ^b	Mean ^b	Standard Deviation ^b	Mean + 1 Std. Dev. ^b	Coefficient of Variation ^b	Skewness ^b	95% UCL ^b	Method ^b
Indeno(1,2,3-Cd)Pyrene	193-39-5	25	9	9	14	40,200	3,942	8,187	12,129	2.077	3.937	7,348	Use 95% Adjusted Gamma UCL
Methylcyclohexane	108-87-2	25	6	6	2,400	1,200,000	303,129	326,802	629,931	1.078	1.257	496,447	Use 95% Approximate Gamma UCL
Naphthalene	91-20-3	25	25	25	5,010	12,600,000	3,111,321	3,172,052	6,283,373	1.02	1.437	5,081,172	Use 95% Approximate Gamma UCL
Nitrobenzene	98-95-3	25	23	23	28.5	6,600,000	1,169,016	1,599,540	2,768,556	1.368	2.036	2,505,377	Use 95% Adjusted Gamma UCL
n-Nitrosodiphenylamine	86-30-6	25	2	2	70	31,100	6,042	9,456	15,498	1.565	1.734	14,286	Use 95% Chebyshev (Mean, Sd) UCL
Phenanthrene	85-01-8	25	14	14	14	396,000	37,286	81,613	118,899	2.189	3.832	199,694	Use 99% Chebyshev (Mean, Sd) UCL
Phenol	108-95-2	25	11	11	90	79,700	12,894	22,018	34,912	1.708	2.227	24,685	Use 95% Adjusted Gamma UCL
Pyrene	129-00-0	25	20	20	125	188,000	16,600	38,095	54,695	2.295	4.144	31,330	Use 95% Adjusted Gamma UCL
Metals - mg/kg													
Aluminum	7429-90-5	25	25	25	185	8,030	1,058	1,588	2,646	1.5	3.927	1,426	Use 95% H-UCL
Antimony	7440-36-0	25	1	1	1	22.3	2,562	4,141	6,703	1.616	4.887	6,172	Use 95% Chebyshev (Mean, Sd) UCL
Arsenic	7440-38-2	25	17	19	1.05	15.8	6.5	4,215	10,715	0.648	0.763	8,286	Use 95% Approximate Gamma UCL
Barium	7440-39-3	25	6	6	10.5	81.5	27.82	18.17	45.99	0.653	1.711	34.5	Use 95% H-UCL
Beryllium	7440-41-7	25	5	7	0.105	0.94	0.317	0.237	0.554	0.748	1.558	0.524	Use 95% Chebyshev (Mean, Sd) UCL
Calcium	7440-70-2	25	13	13	260	183,000	14,449	38,657	53,106	2.675	3.884	91,376	Use 99% Chebyshev (Mean, Sd) UCL
Chromium	7440-47-3	25	22	25	2.4	56.2	11.89	14.64	26.53	1.231	2.226	24.65	Use 95% Chebyshev (Mean, Sd) UCL
Cobalt	7440-48-4	25	2	2	2.6	8.3	4,844	1,455	6,299	0.3	0.471	5,342	Use 95% Student's-t UCL
Copper	7440-50-8	25	25	25	12.1	148	52.7	33.27	85.97	0.631	0.909	67.04	Use 95% Approximate Gamma UCL
Cyanide	57-12-5	25	2	2	0.2	10.6	2,432	2.22	4,652	0.913	2.726	3,594	Use 95% H-UCL
Iron	7439-89-6	25	25	25	291	40,900	5,684	9,952	15,636	1.751	2.951	10,227	Use 95% H-UCL
Lead	7439-92-1	25	25	25	7.8	168	64.61	45.06	109.67	0.697	0.767	84.26	Use 95% Approximate Gamma UCL
Magnesium	7439-95-4	25	9	9	260	117,000	7,162	23,333	30,495	3.258	4.709	53,593	Use 99% Chebyshev (Mean, Sd) UCL
Manganese	7439-96-5	25	25	25	3.5	174	37.13	48.47	85.6	1.305	2.159	54.78	Use 95% Approximate Gamma UCL
Mercury	7439-97-6	25	20	24	0.0155	2.6	0.957	0.741	1.698	0.774	0.543	1.362	Use 95% Approximate Gamma UCL
Nickel	7440-02-0	25	8	9	2.05	70.3	11.46	17.11	28.57	1.494	2.608	26.37	Use 95% Chebyshev (Mean, Sd) UCL
Potassium	7440-09-7	25	1	1	500	1,350	914.8	257.1	1,172	0.281	0.011	1,003	Use 95% Student's-t UCL
Selenium	7782-49-2	25	18	21	1	13	7,032	4,059	11,091	0.577	0.117	8,421	Use 95% Student's-t UCL
Sodium	7440-23-5	25	10	10	500	4,500	1,658	1,170	2,828	0.705	1.088	2,116	Use 95% Approximate Gamma UCL
Vanadium	7440-62-2	25	5	6	2.6	43.3	8.2	8,482	16,682	1.034	3.374	15.59	Use 95% Chebyshev (Mean, Sd) UCL
Zinc	7440-66-6	25	20	21	1.55	44.8	10,14	9,651	19,791	0.952	2.194	13.77	Use 95% Approximate Gamma UCL
Miscellaneous													
Chloride (mg/kg)	16887-00-6	25	19	19	10	2,270	757.9	700.9	1,459	0.925	0.745	1,233	Use 95% Approximate Gamma UCL
Nitrogen, Ammonia (mg/kg)		25	14	14	4.3	207	44.08	57.14	101.22	1.296	1.882	66.34	Use 95% Approximate Gamma UCL
pH (s.u.)		25	24	25	0.56	12.36	3.44	3,096	6,536	0.9	1.328	4.5	95% Student's-t UCL ^c
Sulfite (mg/kg)	14265-45-3	25	12	12	15	990	137	245.3	382.3	1.791	2.683	625.1	Use 99% Chebyshev (Mean, Sd) UCL
Total Phenolics (mg/kg)		25	19	20	8.6	766	157	173.3	330.3	1.104	2.076	233.6	Use 95% Approximate Gamma UCL
Sulfide (mg/kg)	18496-25-8	18	18	18	21.5	106	52.01	23.75	75.76	0.457	0.892	61.74	Use 95% Student's-t UCL
Isopropyl Alcohol	67-63-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Formaldehyde	50-00-0	5	3	3	561	26,500	5,863	11,537	17,400	1.968	2.236	57,199	Use 99% Chebyshev (Mean, Sd) UCL
PCBs													
Total Di PCBs		2	1	1	1,920	8,100	5,010	4,370	9,380	0.872	NA	NA	Too Few Observations To Calculate UCLs
Total Hexa PCBs		2	2	2	2,550	32,100	17,325	20,895	38,220	1.206	NA	NA	Too Few Observations To Calculate UCLs
Total Mono PCBs		2	1	1	630	20,200	10,415	13,838	24,253	1.329	NA	NA	Too Few Observations To Calculate UCLs
Total Penta PCBs		2	2	2	3,230	45,300	24,265	29,748	54,013	1.226	NA	NA	Too Few Observations To Calculate UCLs
Total Tetra PCBs		2	2	2	1,330	32,400	16,865	21,970	38,835	1.303	NA	NA	Too Few Observations To Calculate UCLs

Footnotes:

a: Statistical summary included both detect and non-detect data.

b: Statistical summary included only detected data. Non-detect data concentrations were divided in half and analyzed as detected data.

c: Assuming a normal sample distribution the 95% Student's-t UCL value is utilized regardless of the suggested ProUCL value.

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 12
Impoundment 2 Statistical Summary

Parameter	CAS #	Number of Valid Samples	Number of Unique Samples ^a	Detects ^a	Minimum Detected ^b	Maximum Detected ^b	Mean ^b	Standard Deviation ^b	Mean + 1 Std. Dev. ^b	Coefficient of Variation ^b	Skewness ^b	95% UCL ^b	Method ^b
Volatile Organic Compounds (VOCs) - ug/kg													
1,2-Dichlorobenzene	95-50-1	28	24	27	500,000	6,500,000	1,863,429	1,169,362	3,032,791	0.628	2.598	2,233,721	Use 95% H-UCL
1,3,5-Trimethylbenzene	108-67-8	28	24	27	102,000	6,500,000	487,071	1,188,025	1,675,096	2.439	5.159	1,465,712	Use 95% Chebyshev (Mean, Sd) UCL
1,3-Dichlorobenzene	541-73-1	28	19	19	15,300	6,500,000	359,782	1,216,478	1,576,260	3.381	5.115	2,647,186	Use 99% Chebyshev (Mean, Sd) UCL
1,4-Dichlorobenzene	106-46-7	28	23	27	50,800	6,500,000	376,336	1,202,024	1,578,360	3.194	5.265	1,366,508	Use 95% Chebyshev (Mean, Sd) UCL
Acetone	67-64-1	28	1	1	110,000	12,500,000	842,536	2,302,436	3,144,972	2.733	5.164	2,739,178	Use 95% Chebyshev (Mean, Sd) UCL
Benzene	71-43-2	28	28	28	16,700,000	183,000,000	52,246,429	39,882,369	92,128,798	0.763	1.838	65,288,332	Use 95% Approximate Gamma UCL
Carbon Disulfide	75-15-0	28	27	27	37,100	6,500,000	330,771	1,211,285	1,542,056	3.662	5.26	2,608,410	Use 99% Chebyshev (Mean, Sd) UCL
Chlorobenzene	108-90-7	28	13	28	18,200	13,000,000	823,157	2,407,139	3,230,296	2.924	5.149	5,349,419	Use 99% Chebyshev (Mean, Sd) UCL
Chloromethane	74-87-3	28	11	11	24,600	6,500,000	384,021	1,206,098	1,590,119	3.141	5.19	2,651,908	Use 99% Chebyshev (Mean, Sd) UCL
Cyclohexane	1735-17-7	28	4	4	23,000	6,500,000	413,786	1,202,826	1,616,612	2.907	5.154	2,675,520	Use 99% Chebyshev (Mean, Sd) UCL
Ethanol	64-17-5	28	7	7	1,050	50,000	23,784	22,450	46,234	0.944	0.244	65,997	Use 99% Chebyshev (Mean, Sd) UCL
Ethylbenzene	100-41-4	28	25	27	74,600	1,250,000	225,339	237,350	462,689	1.053	3.324	420,857	Use 95% Chebyshev (Mean, Sd) UCL
Isopropylbenzene	98-82-8	28	26	27	163,000	6,500,000	634,107	1,191,127	1,825,234	1.878	4.748	1,615,303	Use 95% Chebyshev (Mean, Sd) UCL
m,p-Xylene	XYLMP	28	27	27	758,000	5,660,000	1,904,179	1,175,589	3,079,768	0.617	1.684	2,299,661	Use 95% H-UCL
Methanol	67-56-1	28	15	15	2,100	344,000	92,650	93,380	186,030	1.008	1.436	135,683	Use 95% Approximate Gamma UCL
Methyl Acetate	79-20-9	28	4	4	55,000	6,500,000	597,929	1,254,329	1,852,258	2.098	4.212	2,956,505	Use 99% Chebyshev (Mean, Sd) UCL
MethylCyclohexane	108-87-2	28	6	6	65,000	6,500,000	485,429	1,207,970	1,693,399	2.488	4.915	1,480,499	Use 95% Chebyshev (Mean, Sd) UCL
o-Xylene	95-47-6	28	27	27	209,000	1,290,000	484,393	313,051	797,444	0.646	1.517	742,270	Use 95% Chebyshev (Mean, Sd) UCL
Toluene	108-88-3	28	28	28	3,930,000	40,200,000	11,867,857	8,700,937	20,568,794	0.733	1.797	14,886,869	Use 95% H-UCL
Xylene (Total)	1330-20-7	28	25	27	970,000	6,950,000	2,344,286	1,442,152	3,786,438	0.615	1.737	2,815,812	Use 95% H-UCL
Semivolatiles Organic Compounds (SVOCs) - ug/kg													
1,1'-Biphenyl	92-52-4	28	26	26	4,800	80,200	38,297	23,214	61,511	0.606	0.298	45,769	Use 95% Student's-t UCL
1,2-Dichlorobenzene	95-50-1	28	24	27	500,000	6,500,000	1,863,429	1,169,362	3,032,791	0.628	2.598	2,233,721	Use 95% H-UCL
1,2-Diphenylhydrazine	122-66-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	28	23	27	50,800	6,500,000	376,336	1,202,024	1,578,360	3.194	5.265	1,366,508	Use 95% Chebyshev (Mean, Sd) UCL
2,4-Dimethylphenol	105-67-9	28	11	11	1,000	14,400	9,071	4,585	13,656	0.505	-0.805	12,848	Use 95% Chebyshev (Mean, Sd) UCL
2-Chloronaphthalene	91-58-7	28	6	6	400	34,800	6,708	8,613	15,321	1.284	2.137	14,351	Use 95% H-UCL
2-Methylnaphthalene	91-57-6	28	27	28	65,600	656,000	246,050	155,315	401,365	0.631	1.104	302,078	Use 95% Approximate Gamma UCL
2-Methylphenol	95-48-7	28	4	4	600	5,580	3,370	1,622	4,992	0.481	-0.217	4,705	Use 95% Chebyshev (Mean, Sd) UCL
3 & 4-Methylphenol	34METHYL	28	16	17	4,700	26,900	9,621	6,572	16,193	0.683	1.317	15,035	Use 95% Chebyshev (Mean, Sd) UCL
Acenaphthene	83-32-9	28	4	4	200	180,000	16,567	43,928	60,495	2.652	3.146	99,167	Use 99% Chebyshev (Mean, Sd) UCL
Acenaphthylene	208-96-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	98-86-2	28	28	28	34,600	652,000	241,450	129,977	371,427	0.538	1.246	289,287	Use 95% Approximate Gamma UCL
Aniline	62-53-3	28	21	21	410	173,000	49,621	44,970	94,591	0.906	0.836	134,180	Use 99% Chebyshev (Mean, Sd) UCL
Anthracene	120-12-7	28	12	12	200	23,700	5,329	5,490	10,819	1.03	1.668	7,724	Use 95% Approximate Gamma UCL
Benzidine	92-87-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	56-55-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	50-32-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	205-99-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)Perylene	191-24-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	207-08-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	65-85-0	28	18	19	9,500	950,000	123,839	171,820	295,659	1.387	4.381	170,317	Use 95% Approximate Gamma UCL
bis(2-Ethylhexyl)adipate	103-23-1	28	11	11	440	158,000	21,574	35,179	56,753	1.631	2.696	50,553	Use 95% Chebyshev (Mean, Sd) UCL
bis(2-Ethylhexyl)Phthalate	117-81-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	53-70-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo furan	132-64-9	28	28	28	7,070	47,300	23,654	11,996	35,650	0.507	0.553	27,516	Use 95% Student's-t UCL
Dimethyl Phthalate	131-11-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	28	26	26	2,400	37,200	12,290	10,051	22,341	0.818	1.119	16,113	Use 95% Approximate Gamma UCL
Fluorene	86-73-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 12
Impoundment 2 Statistical Summary

Parameter	CAS #	Number of Valid Samples	Number of Unique Samples ^a	Detects ^a	Minimum Detected ^b	Maximum Detected ^b	Mean ^b	Standard Deviation ^b	Mean + 1 Std. Dev. ^b	Coefficient of Variation ^b	Skewness ^b	95% UCL ^b	Method ^b
Indeno(1,2,3-Cd)Pyrene	193-39-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	28	6	6	65,000	6,500,000	485,429	1,207,970	1,693,399	2.488	4.915	1,480,499	Use 95% Chebyshev (Mean, Sd) UCL
Naphthalene	91-20-3	28	28	28	1,040,000	13,700,000	4,879,643	3,408,717	8,288,360	0.699	1.118	6,136,041	Use 95% Approximate Gamma UCL
Nitrobenzene	98-95-3	28	8	8	400	110,000	21,421	32,518	53,939	1.518	1.538	82,566	Use 99% Chebyshev (Mean, Sd) UCL
n-Nitrosodiphenylamine	86-30-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	28	24	25	1,000	239,000	66,556	67,639	134,195	1.016	1.199	98,078	Use 95% Approximate Gamma UCL
Phenol	108-95-2	28	3	3	400	13,700	3,846	2,822	6,668	0.734	1.687	6,171	Use 95% Chebyshev (Mean, Sd) UCL
Pyrene	129-00-0	28	13	13	200	14,600	2,583	2,657	5,240	1.029	3.575	7,578	Use 99% Chebyshev (Mean, Sd) UCL
Metals - mg/kg													
Aluminum	7429-90-5	28	28	28	51.6	870	183.4	152.6	336	0.832	3.557	227.1	Use 95% Approximate Gamma UCL
Antimony	7440-36-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	28	18	26	1	7.1	3.321	1.466	4.787	0.441	1.08	3.793	Use 95% Student's-t UCL
Barium	7440-39-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	28	24	28	1	16.1	4.511	3.76	8.271	0.834	1.495	5.878	Use 95% Approximate Gamma UCL
Cobalt	7440-48-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	28	28	28	4.9	27.8	13.91	5.736	19.646	0.412	0.838	15.76	Use 95% Student's-t UCL
Cyanide	57-12-5	28	3	3	0.165	1.3	0.603	0.434	1.037	0.72	0.392	0.96	Use 95% Chebyshev (Mean, Sd) UCL
Iron	7439-89-6	28	28	28	226	4,170	927.1	811.1	1,738	0.875	2.746	1,175	Use 95% Approximate Gamma UCL
Lead	7439-92-1	28	28	28	9	235	55.13	42.45	97.58	0.77	2.956	68.28	Use 95% Approximate Gamma UCL
Magnesium	7439-95-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	28	26	28	2.4	19.3	6.982	4.071	11.053	0.583	1.552	8.361	Use 95% Approximate Gamma UCL
Mercury	7439-97-6	28	24	27	0.015	20.9	1.006	3.906	4.912	3.881	5.26	8.351	Use 99% Chebyshev (Mean, Sd) UCL
Nickel	7440-02-0	28	8	8	1.9	14.2	3.305	2.81	6.115	0.85	2.827	5.62	Use 95% Chebyshev (Mean, Sd) UCL
Potassium	7440-09-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	28	23	28	2.1	13.3	6.45	2.434	8.884	0.377	1.018	7.292	Use 95% Approximate Gamma UCL
Sodium	7440-23-5	28	27	28	1,020	11,400	3,071	2,026	5,097	0.66	2.811	3,677	Use 95% Approximate Gamma UCL
Vanadium	7440-62-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	28	12	14	0.95	13.3	2.834	3.218	6.052	1.135	2.392	5.485	Use 95% Chebyshev (Mean, Sd) UCL
Miscellaneous													
Chloride (mg/kg)	16887-00-6	28	27	28	40.9	7,010	872.6	1,692	2,565	1.939	2.796	1,866	Use 95% H-UCL
Nitrogen, Ammonia (mg/kg)		28	8	8	1.7	75	24.87	19.25	44.12	0.774	1.28	40.76	Use 95% H-UCL
pH (s.u.)		28	26	28	0.3	2.33	1.436	0.537	1.973	0.374	-0.195	1.609	95% Student's-t UCL ^c
Sulfite (mg/kg)	14265-45-3	28	23	23	15	1,230	322	341.4	663.4	1.06	1.334	482.3	Use 95% Approximate Gamma UCL
Total Phenolics (mg/kg)		28	28	28	14.8	279	99.06	74.09	173.15	0.748	1.124	127.6	Use 95% Approximate Gamma UCL
Sulfide (mg/kg)	18496-25-8	13	13	13	11	799	165	236.9	401.9	1.436	2.065	329.6	Use 95% Approximate Gamma UCL
Isopropyl Alcohol	67-63-0	28	2	2	1,000	50,000	21,245	23,435	44,680	1.103	0.457	65,311	Use 99% Chebyshev (Mean, Sd) UCL
Formaldehyde	50-00-0	5	4	4	362	1,660	846.4	546.6	1,393	0.646	0.9	1,368	Use 95% Student's-t UCL
PCBs													
Total Di PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Hexa PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Mono PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Penta PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Tetra PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes:

a: Statistical summary included both detect and non-detect data.

b: Statistical summary included only detected data. Non-detect data concentrations were divided in half and analyzed as detected data.

c: Assuming a normal sample distribution the 95% Students-t UCL value is utilized regardless of the suggested ProUCL value.

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Table 13
Detected Results from Impoundment 1 compared to historical

	Impoundment Remedy Appropriateness Evaluation -2005			Impoundments 1 & 2 Characterization Program -2010			Percent Difference (negative indicates higher historical concentration)
	Minimum	Maximum	Mean	Minimum	Maximum	Mean	
Volatile Organic Compounds (VOCs) - ug/kg							
1,3,5-Trimethylbenzene	NA	NA	NA	2,300	1,110,000	347,202	
Benzene	29,700,000	390,000,000	155,700,000	78,500	207,000,000	47,762,304	-106%
Carbon Disulfide	9,900	1,800,000	524,180	100	1,200,000	195,466	-91%
Chlorobenzene	800	500,000	233,540	233	2,400,000	499,194	73%
Cyclohexane	NA	NA	NA	1,000	1,200,000	301,640	
Ethanol	NA	NA	NA	1,000	135,000	76,532	
Ethylbenzene	114,000	2,900,000	1,016,800	1,480	529,000	168,443	-143%
Isopropylbenzene	NA	NA	NA	6,580	1,710,000	531,564	
m,p-Xylene	NA	NA	NA	439	5,610,000	1,923,598	
Methanol	NA	NA	NA	2,000	275,000	154,504	
MethylCyclohexane	NA	NA	NA	2,400	1,200,000	303,129	
o-Xylene	NA	NA	NA	4,060	1,340,000	477,514	
Toluene	101,000	150,000,000	47,812,200	1,440	40,700,000	11,425,122	-123%
Xylene (Total)	1,760,000	34,000,000	13,300,000	4,500	6,910,000	2,400,192	-139%
	Total			Total			-107%
Semivolatiles Organic Compounds (SVOCs) - ug/kg							
1,1'-Biphenyl	NA	NA	NA	147	135,000	30,107	
1,2-Dichlorobenzene	188,000	2,960,000	1,117,600	3,390	2,550,000	761,381	-38%
1,2-Diphenylhydrazine	NA	NA	NA	28.50	11,800	1,951	
1,3-Dichlorobenzene	1,700	69,800	20,780	153	1,200,000	292,545	173%
1,4-Dichlorobenzene	13,200	329,000	105,760	197	850,000	195,197	59%
2,4-Dimethylphenol	NA	NA	NA	70	87,800	19,521	
2-Chloronaphthalene	12,000	101,000	41,580	81.10	101,000	20,674	-67%
2-Methylnaphthalene	67,000	633,000	244,240	506	678,000	174,110	-34%
2-Methylphenol	7,200	31,000	17,440	28.50	43,400	8,015	-74%
3 & 4-Methylphenol	8,500	31,000	18,700	28.50	236,000	46,845	86%
Acenaphthene	7,060	79,900	27,432	14	25,600	6,449	-124%
Acenaphthylene	2,300	20,000	11,420	14	40,600	2,945	-118%
Acetophenone	NA	NA	NA	94.30	1,190,000	275,708	
Aniline	212,000	212,000	212,000	189	6,030,000	672,158	104%
Anthracene	2,300	20,000	11,420	14	103,000	6,502	-55%
Benzidine	NA	NA	NA	285	95,000	15,607	
Benzo(a)Anthracene	1,700	20,000	11,160	89.10	87,300	7,522	-39%
Benzo(a)Pyrene	2,100	20,000	11,340	47.60	77,900	5,731	-66%
Benzo(b)Fluoranthene.	2,300	20,000	11,420	14	74,700	7,314	-44%
Benzo(g,h,i)Perylene	1,500	20,000	11,080	14	39,300	3,885	-96%
Benzo(k)Fluoranthene	4,600	20,000	12,460	14	49,400	5,156	-83%
Benzoic acid	14,600	362,000	133,650	285	1,410,000	298,767	76%
bis(2-Ethylhexyl)adipate	NA	NA	NA	28.50	157,000	11,786	
bis(2-Ethylhexyl)Phthalate	1,800	20,000	11,220	28.50	9,500	1,550	-151%
Carbazole	12,000	12,000	12,000	28.50	46,500	3,880	-102%
Chrysene	1,300	20,000	10,980	78.90	86,600	7,392	-39%
Dibenzo(a,h)Anthracene	2,100	20,000	11,340	14	18,200	1,864	-144%
Dibenzofuran	8,200	113,000	42,200	184	94,100	29,591	-35%
Dimethyl Phthalate	1,900	20,000	11,260	28.50	86,700	11,171	-1%
Fluoranthene	5,640	47,000	20,608	315	262,000	22,127	7%
Fluorene	2,600	244,000	59,720	14	101,000	6,221	-162%
Indeno(1,2,3-Cd)Pyrene	1,000	20,000	10,860	14	40,200	3,942	-93%
Naphthalene	940,000	6,470,000	2,800,000	5,010	12,600,000	3,111,321	11%
Nitrobenzene	64,600	4,800,000	1,429,920	28.50	6,600,000	1,169,016	-20%
n-Nitrosodiphenylamine	1,300	31,000	14,800	70	31,100	6,042	-84%
Phenanthrene	12,000	67,000	29,320	14	396,000	37,286	24%
Phenol	5,500	35,300	22,360	90	79,700	12,894	-54%
Pyrene	5,270	20,000	13,774	125	188,000	16,600	19%
	Total			Total			7,310,773
Metals - mg/kg							
Aluminum	1.0	619	183.11	185	8,030	1,058	141%
Antimony	0.06	14.30	5.26	1.0	22.30	2.56	-69%
Arsenic	0.10	3.74	0.87	1.05	15.80	6.50	153%
Barium	0.20	16.40	4.11	10.50	81.50	27.82	148%
Beryllium	0.01	1.19	0.44	0.11	0.94	0.32	-32%
Calcium	2.61	1,120	274.66	260	183,000	14,449	193%
Chromium	0.05	36.90	10.93	2.40	56.20	11.89	8%
Cobalt	0.05	11.90	4.37	2.60	8.30	4.84	10%
Copper	0.09	34.80	11.11	12.10	148	52.70	130%
Cyanide	0.01	2.10	0.83	0.20	10.60	2,432	99%
Iron	12.50	10,600	2,463	291	40,900	5,684	79%
Lead	0.06	100	32.34	7.80	168	64.61	67%
Magnesium	1.0	326	113.86	260	117,000	7162	194%
Manganese	0.02	57	15.12	3.50	174	37.13	84%
Mercury	0.00	0.96	0.36	0.02	2.60	0.96	91%
Nickel	0.06	25.60	9.82	2.05	70.30	11.46	15%
Potassium	1.29	238	87.61	500	1350	914.80	165%
Selenium	0.03	3.92	1.58	1.0	13	7.03	127%
Sodium	1,280	4990	2,364	500	4500	1658	-35%
Vanadium	0.07	9.27	2.87	2.60	43.30	8.20	96%
Zinc	3.50	166	84.75	1.55	44.80	10.14	-157%
	Total			Total			31,174
Miscellaneous							
Chloride (mg/kg)	1,050	1,050	1,050	10	2270	757.90	-32%
Nitrogen, Ammonia (mg/kg)	NA	NA	NA	4.30	207	44.08	
pH (s.u.)	1.30	12	5.13	0.56	12.36	3.44	-40%
Sulfite (mg/kg)	30	71.30	50.65	15	990	137	92%
Total Phenolics (mg/kg)	NA	NA	NA	8.60	766	157	
Sulfide (mg/kg)	4.0	15.40	9.70	21.50	106	52.01	137%
Formaldehyde	NA	NA	NA	561	26,500	5,863	
PCBs							

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program
Table 14
Detailed Results from Impoundment 2 compared to historical

	Impoundment Remedy Appropriateness Evaluation -2005			Impoundments 1 & 2 Characterization Program -2010			Percent Difference (negative indicates higher historical concentration)
	Minimum	Maximum	Mean	Minimum	Maximum	Mean	
Volatile Organic Compounds (VOCs) - ug/kg							
1,3,5-Trimethylbenzene	NA	NA	NA	102,000	6,500,000	487,071	
Acetone	30,000	280,000	154,143	110,000	12,500,000	842,536	138%
Benzene	8,220,000	61,000,000	27,015,000	16,700,000	183,000,000	52,246,429	64%
Carbon Disulfide	31,000	290,000	162,000	37,100	6,500,000	330,771	68%
Chlorobenzene	22,000	200,000	116,000	18,200	13,000,000	823,157	151%
Chloromethane	32,000	300,000	165,286	24,600	6,500,000	384,021	80%
Cyclohexane	NA	NA	NA	23,000	6,500,000	413,786	
Ethanol	NA	NA	NA	1,050	50,000	23,784	
Ethylbenzene	66,500	230,000	166,500	74,600	1,250,000	225,339	30%
Isopropylbenzene	NA	NA	NA	163,000	6,500,000	634,107	
m,p-Xylene	NA	NA	NA	758,000	5,660,000	1,904,179	
Methanol	NA	NA	NA	2,100	344,000	92,650	
Methyl Acetate	NA	NA	NA	55,000	6,500,000	597,929	
MethylCyclohexane	NA	NA	NA	65,000	6,500,000	485,429	
o-Xylene	NA	NA	NA	209,000	1,290,000	484,393	
Toluene	2,560,000	16,200,000	8,302,857	3,930,000	40,200,000	11,867,857	35%
Xylene (Total)	529,000	3,440,000	1,687,000	970,000	6,950,000	2,344,286	33%
		Total	37,768,786		Total	74,187,724	65%
Semivolatiles Organic Compounds (SVOCs) - ug/kg							
1,1'-Biphenyl	NA	NA	NA	4,800	80,200	38,297	
1,2-Dichlorobenzene	530,000	4,360,000	1,646,143	500,000	6,500,000	1,863,429	12%
1,3-Dichlorobenzene	9,800	115,000	44,229	15,300	6,500,000	359,782	156%
1,4-Dichlorobenzene	70,400	588,000	265,486	50,800	6,500,000	376,336	35%
2,4-Dimethylphenol	NA	NA	NA	1,000	14,400	9,071	
2-Chloronaphthalene	8,300	378,000	67,186	400	34,800	6,708	-164%
2-Methylnaphthalene	178,000	1,520,000	569,143	65,600	656,000	246,050	-79%
2-Methylphenol	14,400	58,000	35,486	600	5,580	3,370	-165%
3 & 4-Methylphenol	21,000	68,000	46,143	4,700	26,900	9,621	-131%
Acenaphthene	22,600	314,000	100,029	200	180,000	16,567	-143%
Acetophenone	NA	NA	NA	34,600	652,000	241,450	
Aniline	8,300	8,300	8,300	410	173,000	49,621	143%
Anthracene	8,300	18,000	12,686	200	23,700	5,329	-82%
Benzoic acid	73,000	884,000	386,667	9,500	950,000	123,839	-103%
bis(2-Ethylhexyl)adipate	NA	NA	NA	440	158,000	21,574	
Dibenzofuran	8,000	247,000	54,043	7,070	47,300	23,654	-78%
Fluoranthene	5,800	37,000	12,400	2,400	37,200	12,290	-1%
Naphthalene	1,150,000	9,860,000	5,155,714	1,040,000	13,700,000	4,879,643	-6%
Nitrobenzene	8,300	1,330,000	266,171	400	110,000	21,421	-170%
Phenanthrene	8,300	763,000	159,871	1,000	239,000	66,556	-82%
Phenol	15,200	43,000	27,343	400	13,700	3,846	-151%
Pyrene	4,300	8,900	6,857	200	14,600	2,583	-91%
		Total	8,863,895		Total	8,381,037	-6%
Metals - mg/kg							
Aluminum	0.20	11,000	1,684	51.60	870	183.40	-161%
Arsenic	0.10	24.40	5.81	1.0	7.10	3.32	-55%
Chromium	0.01	11.40	4.39	1.0	16.10	4.51	3%
Copper	0.03	29.80	13	4.90	27.80	13.91	7%
Cyanide	0.01	1.90	0.89	0.17	1.30	0.60	-38%
Iron	1.19	1,210	451.84	226	4,170	927.10	69%
Lead	0.06	127	52.67	9.0	235	55.13	5%
Manganese	1.0	189	79.86	2.40	19.30	6.98	-168%
Mercury	0.001	2,180	312.18	0.02	20.90	1.01	-199%
Nickel	0.04	9.14	3.47	1.90	14.20	3.31	-5%
Selenium	0.03	13.80	4.82	2.10	13.30	6.45	29%
Sodium	1,200	7,350	3,706	1,020	11,400	3,071	-19%
Zinc	0.07	175	31.24	0.95	13.30	2.83	-167%
		Total	6350		Total	4280	-39%
Miscellaneous							
Chloride (mg/kg)	NA	NA	NA	40.90	7,010	872.60	
Nitrogen, Ammonia (mg/kg)	NA	NA	NA	1.70	75	24.87	
pH (s.u.)	2.20	13.10	10.08	0.30	2.33	1.44	-150%
Sulfite (mg/kg)	91	643	317.17	15	1,230	322	2%
Total Phenolics (mg/kg)	NA	NA	NA	14.80	279	99.06	
Sulfide (mg/kg)	4.0	89	24	11	799	165	149%
Isopropyl Alcohol	NA	NA	NA	1,000	50,000	21,245	
Formaldehyde	NA	NA	NA	362	1,660	846.40	

Percent difference calculated using the following formula:

$$\% \text{Diff} = \frac{C_{hist} - C_{current}}{(C_{hist} + C_{current}) / 2} \times 100$$

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 15
Impoundment 2 Comparison of Hard/Crumbly and Viscous/Rubbery Results

Specific Gravity	Hard/Crumbly (n=11)				Viscous/Rubbery (n=11)				% Difference		
	Number of Detections	Minimum	Maximum	Mean	Number of Detections	Minimum	Maximum	Mean	Minimum	Maximum	Mean
Volatile Organic Compounds (VOCs) - ug/kg											
1,3,5-Trimethylbenzene	0.86	10	102,000	6,500,000	813,273	11	171,000	572,000	265,818	-50.5%	167.6%
Acetone	0.79	1	250,000	12,500,000	1,728,273	ND ¹				NA ²	
Benzene	0.88	11	23,300,000	183,000,000	79,818,182	11	16,700,000	70,000,000	31,727,273	33.0%	89.3%
Carbon Disulfide	1.26	10	37,100	6,500,000	733,755	11	40,400	134,000	68,909	-8.5%	191.9%
Chlorobenzene	1.10	11	18,200	13,000,000	1,728,927	11	19,800	500,000	211,518	-8.4%	185.2%
Chloromethane	(gas)	6	82,300	6,500,000	802,845	3	24,600	250,000	107,718	108.0%	185.2%
Cyclohexane	0.78	1	25,800	6,500,000	865,982	2	23,000	250,000	108,736	11.5%	185.2%
Ethanol	0.79	6	2,600	50,000	26,892	1	1,050	50,000	19,394	84.9%	0.0%
Ethylbenzene	0.87	10	81,900	1,250,000	343,718	11	74,600	324,000	138,755	9.3%	117.7%
Isopropylbenzene	0.86	10	163,000	6,500,000	1,116,091	11	163,000	719,000	297,091	0.0%	160.2%
m,p-Xylene	0.88	10	855,000	5,660,000	2,505,000	11	758,000	3,170,000	1,425,636	12.0%	56.4%
Methanol	0.80	9	11,400	344,000	148,873	4	2,100	100,000	49,091	137.8%	109.9%
Methyl Acetate	0.93	2	125,000	6,500,000	1,124,273	1	65,000	1,190,000	225,000	63.2%	138.1%
o-Xylene	0.88	10	209,000	1,290,000	630,636	11	213,000	825,000	367,909	-1.9%	44.0%
Toluene	0.87	11	5,000,000	40,200,000	16,918,182	11	3,930,000	18,200,000	8,085,455	24.0%	75.3%
Xylene (Total)	0.88	10	1,060,000	6,950,000	3,022,727	11	970,000	3,990,000	1,792,727	8.9%	54.1%
	0.89								Average Difference	28.2%	117.3%
										101.0%	
Semivolatiles Organic Compounds (SVOCs) - ug/kg											
1,1'-Biphenyl	0.87	9	4,800	45,100	20,719	11	15,200	80,200	54,745	-104.0%	-56.0%
1,2-Dichlorobenzene	1.30	10	500,000	6,500,000	1,928,727	11	1,070,000	3,180,000	1,826,364	-72.6%	68.6%
1,3-Dichlorobenzene	1.29	3	16,500	6,500,000	846,400	11	15,300	54,700	31,436	7.5%	196.7%
1,4-Dichlorobenzene	1.25	10	50,800	6,500,000	715,700	11	83,900	279,000	157,627	-49.1%	183.5%
2,4-Dimethylphenol	0.97	4	1,000	14,400	8,460	3	1,000	14,300	10,516	0.0%	0.7%
2-Chloronaphthalene	1.19	1	410	16,300	3,900	4	400	34,800	11,327	2.5%	-72.4%
2-Methylnaphthalene	1.01	11	65,600	280,000	139,036	11	129,000	656,000	346,727	-65.2%	-80.3%
2-Methylphenol	1.02	2	600	5,580	3,272	1	950	5,000	3,812	-45.2%	11.0%
3 & 4-Methylphenol	1.01	7	4,700	21,100	9,730	5	4,700	26,900	9,685	0.0%	-24.2%
Acenaphthene	1.02			ND ¹		3	200	180,000	36,227		NA ²
Acetophenone	1.03	11	34,600	652,000	255,964	11	112,000	434,000	240,000	-105.6%	40.1%
Aniline	1.02	5	410	59,800	11,627	11	21,000	173,000	82,973	-192.3%	-97.3%
Anthracene	1.28	4	205	12,900	3,834	3	200	13,100	4,348	2.5%	-1.5%
Benzoic acid	1.26	8	19,000	194,000	97,818	6	9,500	950,000	147,382	66.7%	-132.2%
bis(2-Ethylhexyl)adipate	0.99	6	440	67,300	21,195	3	1,900	158,000	27,018	-124.8%	-80.5%
Dibenzofuran	1.08	11	7,070	24,700	15,038	11	17,700	47,300	33,182	-85.8%	-62.8%
Fluoranthene	1.25	9	2,400	15,300	5,616	11	4,880	37,200	17,699	-68.1%	-83.4%
Methylcyclohexane	0.77	4	125,000	6,500,000	997,182	1	65,000	386,000	147,818	63.2%	177.6%
										148.4%	

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 15
Impoundment 2 Comparison of Hard/Crumbly and Viscous/Rubbery Results

Specific Gravity	Hard/Crumbly (n=11)				Viscous/Rubbery (n=11)				% Difference		
	Number of Detections	Minimum	Maximum	Mean	Number of Detections	Minimum	Maximum	Mean	Minimum	Maximum	Mean
Semivolatiles Organic Compounds (SVOCs) - ug/kg (con't)											
Naphthalene	1.15	11	1,040,000	6,710,000	2,672,727	11	2,300,000	13,700,000	6,675,455	-75.4%	-68.5%
Nitrobenzene	1.20		ND ¹			5	400	89,900	33,245		NA ²
Phenanthrene	1.18	9	1,000	125,000	33,730	10	2,450	239,000	83,659	-84.1%	-62.6%
Phenol	1.05	2	600	9,200	3,917		ND ¹				NA ²
Pyrene	1.27	3	205	2,790	1,625	5	200	14,600	3,795	2.5%	-135.8%
	1.11									Average Difference	-46.4%
Metals - mg/kg											
Aluminum		11	52	870	206	11	98	213	152	-62.1%	121.3%
Arsenic		9	1.0	7.1	3.4	11	1.9	4.8	3.2	-62.1%	38.7%
Chromium		11	3.0	16	7.3	11	1.0	7.7	2.4	100.0%	70.6%
Copper		11	4.9	25	14	11	8.1	28	14	-49.2%	-9.8%
Cyanide		1	0.2	1.2	0.5	2	0.2	1.3	0.7	-5.9%	-8.0%
Iron		11	226	2,270	1,110	11	288	4,170	859	-24.1%	-59.0%
Lead		11	9.0	235	65	11	21	82	43	-81.6%	96.7%
Manganese		11	2.4	16	7.9	11	2.8	19	6.3	-15.4%	-18.7%
Mercury		11	0.1	21	2.1	10	0.0	0.8	0.3	110.4%	185.4%
Nickel		5	1.9	14	4.2	1	1.9	10	2.7	0.0%	35.7%
Selenium		11	2.1	11	6.9	11	3.6	10	5.7	-52.6%	1.0%
Sodium		11	1,020	5,810	3,260	11	1,470	3,540	2,369	-36.1%	48.6%
Zinc		5	1.0	13	4.1	5	1.0	3.5	1.8	0.0%	116.7%
										Average Difference	-13.7%
											47.6%
											41.2%

(1) Not detected in data set

(2) No comparison of values, as no detections were identified in either the historical or current data set

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 16
VOC Water Cap Data

Sample ID	IM01DUPL 02_04192010	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Sample Date	4/19/2010	4/19/2010	4/19/2010			
Sample Matrix	WW	WW	WW			
Unit	ug/l	ug/l	ug/l			
VOCs						
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5	5	5
1,1,1-Trichloroethane	1 U	1 U	1 U	1	1	1
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1	1	1
1,1,2-Trichloroethane	1 U	1 U	1 U	1	1	1
1,1-Dichloroethane	1 U	1 U	1 U	1	1	1
1,1-Dichloroethene	1 U	1 U	1 U	1	1	1
1,2,3-Trichlorobenzene	5 U	5 U	5 U	5	5	5
1,2,3-Trichloropropane	5 U	5 U	5 U	5	5	5
1,2,4-Trichlorobenzene	5 U	5 U	5 U	5	5	5
1,2-Dibromo-3-chloropropane	10 U	10 U	10 U	10	10	10
1,2-Dibromoethane	2 U	2 U	2 U	2	2	2
1,2-Dichlorobenzene	1 U	1 U	7.9	1	7.9	3
1,2-Dichloroethane	1 U	1 U	1 U	1	1	1
1,2-Dichloropropane	1 U	1 U	1 U	1	1	1
1,3,5-Trimethylbenzene	0.48 J	0.39 J	1.1 J	0.39	1.1	1
1,3-Dichlorobenzene	1 U	1 U	1 U	1	1	1
1,3-Dichloropropane (total)	1 U	1 U	1 U	1	1	1
1,4-Dichlorobenzene	1 U	1 U	1.1	1	1.1	1
1,4-Dioxane	130 U	130 U	130 U	130	130	130
2-Butanone	10 U	10 U	10 U	10	10	10
2-Hexanone	5 U	5 U	5 U	5	5	5
2-Nitropropane	10 U	10 U	10 U	10	10	10
4-Methyl-2-pentanone	5 U	5 U	5 U	5	5	5
Acetone	10 U	10 U	10 U	10	10	10
Acetonitrile	100 U	100 U	100 U	100	100	100
Acrolein	50 U	50 U	50 U	50	50	50
Acrylonitrile	50 U	50 U	50 U	50	50	50
Allyl chloride	5 U	5 U	5 U	5	5	5
Benzene	11.8	<i>129,000</i>	<i>416</i>	11.8	<i>129,000</i>	<i>43143</i>
Bromochloromethane	5 U	5 U	5 U	5	5	5
Bromodichloromethane	1 U	1 U	1 U	1	1	1
Bromoform	4 U	4 U	4 U	4	4	4
Bromomethane	2 U	2 U	2 U	2	2	2
Carbon Disulfide	2 U	2 U	1 J	1	2	2
Carbon Tetrachloride	1 U	1 U	1 U	1	1	1
Chlorobenzene	1 U	1 U	2.4	1	2.4	1
Chloroethane	1 U	1 U	1 U	1	1	1
Chloroform	1 U	1 U	1 U	1	1	1
Chloromethane	1 U	1 U	1 U	1	1	1
Chloroprene	5 U	5 U	5 U	5	5	5
cis-1,2-Dichloroethene	1 U	1 U	1 U	1	1	1
cis-1,3-Dichloropropylene	1 U	1 U	1 U	1	1	1
Cyclohexane	5 U	5 U	5 U	5	5	5
Dibromochloromethane	1 U	1 U	1 U	1	1	1
Dichlorodifluoromethane	5 U	5 U	5 U	5	5	5
Di-Isopropyl ether	5 U	5 U	5 U	5	5	5
Ethyl Acetate	5 U	5 U	5 U	5	5	5
Ethyl Acrylate	5 U	5 U	5 U	5	5	5
Ethyl Ether	5 U	5 U	5 U	5	5	5
Ethylbenzene	1 U	1 U	1.2	1	1.2	1
Freon 113	5 U	5 U	5 U	5	5	5
Isopropylbenzene	2 U	2 U	1 J	1	2	2
m,p-Xylene	0.86 J	0.61 J	9.7	0.61	9.7	4
Methacrylonitrile	10 U	10 U	10 U	10	10	10
Methyl Acetate	5 U	5 U	5 U	5	5	5
Methyl Cyclohexane	5 U	5 U	5 U	5	5	5
Methyl methacrylate	10 U	10 U	10 U	10	10	10
Methyl Tert Butyl Ether	1 U	1 U	1 U	1	1	1
Methylene Chloride	2 U	2 U	2 U	2	2	2
o-Xylene	1 U	1 U	4.2	1	4.2	2
Styrene	5 U	5 U	5 U	5	5	5
Tert Butyl Alcohol	25 U	25 U	25 U	25	25	25
Tetrachloroethene	1 U	1 U	1 U	1	1	1
Tetrahydrofuran	10 U	10 U	10 U	10	10	10
Toluene	2.3	1.8	136	1.8	136	47
trans-1,2-Dichloroethene	1 U	1 U	1 U	1	1	1
trans-1,3-Dichloropropene	1 U	1 U	1 U	1	1	1
Trichloroethene	1 U	1 U	1 U	1	1	1
Trichlorofluoromethane	5 U	5 U	5 U	5	5	5
Vinyl Acetate	10 U	10 U	10 U	10	10	10
Vinyl Chloride	1 U	1 U	1 U	1	1	1
Xylene (Total)	1.1	0.61 J	13.9	0.61	13.9	5

Notes:

U=Not detected

J = Indicates an estimated value

Grey Italics = Indicates reported

data is from a dilution, reanalysis

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 17
SVOC Water Cap Data

Sample ID	IM01DUPL 02_04192010	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Sample Date	4/19/2010	4/19/2010	4/19/2010			
Sample Matrix	WW	WW	WW			
Unit	ug/l	ug/l	ug/l			
SVOCs						
1,1'-Biphenyl	1 U	1.2 U	1 U	1	1.2	1.1
1,2,4,5-Tetrachlorobenzene	2 U	2.4 U	2.1 U	2	2.4	2.2
1,2-Dichlorobenzene	1 U	1 U	7.9	1	7.9	3.3
1,2-Diphenylhydrazine	1 U	1.2 U	1 U	1	1.2	1.1
1,4-Dichlorobenzene	1 U	1 U	1.1	1	1.1	1.0
1,4-Naphthoquinone	5 U	6 U	5.2 U	5	6	5.4
1-Chloro-2-nitrobenzene	2 U	2.4 U	2.1 U	2	2.4	2.2
2,3,4,6-Tetrachlorophenol	5 U	6 U	5.2 U	5	6	5.4
2,4,5-Trichlorophenol	5 U	6 U	5.2 U	5	6	5.4
2,4,6-Trichlorophenol	5 U	6 U	5.2 U	5	6	5.4
2,4-Dichlorophenol	5 U	6 U	5.2 U	5	6	5.4
2,4-Dimethylphenol	5 U	6 U	5.2 U	5	6	5.4
2,4-Dinitrophenol	20 U	24 U	21 U	20	24	21.7
2,4-Dinitrotoluene	2 U	2.4 U	2.1 U	2	2.4	2.2
2,6-Dinitrotoluene	2 U	2.4 U	2.1 U	2	2.4	2.2
2-Acetylaminofluorene	5 U	6 U	5.2 U	5	6	5.4
2-Chloroaniline	5 U	6 U	5.2 U	5	6	5.4
2-Chloronaphthalene	2 U	2.4 U	2.1 U	2	2.4	2.2
2-Chlorophenol	5 U	6 U	5.2 U	5	6	5.4
2-Methylnaphthalene	1 U	1.2 U	1 U	1	1.2	1.1
2-Methyphenol	2 U	2.4 U	7	2	7	3.8
2-Nitroaniline	5 U	6 U	5.2 U	5	6	5.4
2-Nitrophenol	5 U	6 U	5.2 U	5	6	5.4
3 & 4-Methylphenol	2 U	2.4 U	14 J	14	2.4	1.9
3,3'-Dichlorobenzidine	5 U	6 U	5.2 U	5	6	5.4
3-Nitroaniline	5 U	6 U	5.2 U	5	6	5.4
4,6-Dinitro-2-Methylphenol	20 U	24 U	21 U	20	24	21.7
4-Aminobiphenyl	5 U	6 U	5.2 U	5	6	5.4
4-Bromophenyl Phenyl Ether	2 U	2.4 U	2.1 U	2	2.4	2.2
4-chloro-3-Methyl Phenol	5 U	6 U	5.2 U	5	6	5.4
4-Chloroaniline	5 U	6 U	5.2 U	5	6	5.4
4-Chlorophenyl Phenyl Ether	2 U	2.4 U	2.1 U	2	2.4	2.2
4-Nitroaniline	5 U	6 U	5.2 U	5	6	5.4
4-Nitrophenol	10 U	12 U	10 U	10	12	10.7
Acenaphthene	1 U	1.2 U	1 U	1	1.2	1.1
Acenaphthylene	1 U	1.2 U	1 U	1	1.2	1.1
Acetophenone	1.5 J	1.6 J	15.8	1.5	15.8	6.3
Acrylonitrile	50 U	50 U	50 U	50	50	50.0
Aniline	2.7	122	2.1 U	2.1	122	42.3
Anthracene	1 U	1.2 U	1 U	1	1.2	1.1
Atrazine	5 U	6 U	5.2 U	5	6	5.4
Benzaldehyde	5 U	6 U	5.2 U	5	6	5.4
Benzidine	20 U	24 U	21 U	20	24	21.7
Benz[a]Anthracene	1 U	1.2 U	1 U	1	1.2	1.1
Benz[a]Pyrene	1 U	1.2 U	1 U	1	1.2	1.1
Benz[b]Fluoranthene.	1 U	1.2 U	1 U	1	1.2	1.1
Benz[g,h,i]Perylene	1 U	1.2 U	1 U	1	1.2	1.1
Benzol[k]Fluoranthene	1 U	1.2 U	1 U	1	1.2	1.1
Benzoic acid	20 U	24 U	21 U	20	24	21.7
Benzyl Alcohol	2 U	2.4 U	2.1 U	2	2.4	2.2
bis(2-Chloroethoxy)Methane	2 U	2.4 U	2.1 U	2	2.4	2.2
bis(2-Chloroethyl)Ether	2 U	2.4 U	2.1 U	2	2.4	2.2
bis(2-Chloroisopropyl)Ether	2 U	2.4 U	2.1 U	2	2.4	2.2
bis(2-Ethylhexyl)adipate	2 U	2.4 U	2.1 U	2	2.4	2.2
bis(2-Ethylhexyl)Phthalate	1.3 J	2.7	1.2 J	1.2	2.7	1.7
Butyl Benzyl Phthalate	2 U	2.4 U	2.1 U	2	2.4	2.2
Caprolactam	2 U	2.4 U	2.1 U	2	2.4	2.2
Carbazole	1 U	1.2 U	1 U	1	1.2	1.1
Catechol	10 U	12 U	10 U	10	12	10.7
Chlorobenzilate	5 U	6 U	5.2 U	5	6	5.4
Chrysene	1 U	1.2 U	1 U	1	1.2	1.1
Dibenzo(a,h)Anthracene	1 U	1.2 U	1 U	1	1.2	1.1
Dibenzo furan	5 U	6 U	5.2 U	5	6	5.4
Diethyl Phthalate	2 U	2.4 U	2.1 U	2	2.4	2.2
Dimethyl Phthalate	2 U	2.4 U	2.1 U	2	2.4	2.2
di-n-Butyl Phthalate	2 U	2.4 U	2.1 U	2	2.4	2.2
di-n-Octyl Phthalate	2 U	2.4 U	2.1 U	2	2.4	2.2
Diphenylamine	5 U	6 U	5.2 U	5	6	5.4
Fluoranthene	1 U	1.2 U	1 U	1	1.2	1.1
Fluorene	1 U	1.2 U	1 U	1	1.2	1.1
Hexachlorobenzene	1 U	1.2 U	1 U	1	1.2	1.1
Hexachlorobutadiene	1 U	1.2 U	1 U	1	1.2	1.1
Hexachlorocyclopentadiene	20 U	24 U	21 U	20	24	21.7
Hexachloroethane	2 U	2.4 U	2.1 U	2	2.4	2.2
Hydroquinone	10 U	12 U	10 U	10	12	10.7
Indeno(1,2,3-Cd)Pyrene	1 U	1.2 U	1 U	1	1.2	1.1
Isophorone	0.34 J	0.41 J	0.85 J	0.34	0.85	0.5
Methylcyclohexane	5 U	5 U	5 U	5	5	5.0

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Table 17
SVOC Water Cap Data

Sample ID	IM01DUPL 02_04192010	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Sample Date	4/19/2010	4/19/2010	4/19/2010			
Sample Matrix	WW	WW	WW			
Unit	ug/l	ug/l	ug/l			
SVOCs						
Naphthalene	2.7	2.4	7.5	2.4	7.5	4.2
Nitrobenzene	1.1 J	2.4 U	2.1 U	1.1	2.4	1.9
N-Nitrosodiethylamine	5 U	6 U	5.2 U	5	6	5.4
n-Nitrosodimethylamine	2 U	2.4 U	2.1 U	2	2.4	2.2
N-Nitrosodi-n-butylamine	5 U	6 U	5.2 U	5	6	5.4
n-Nitroso-di-n-Propylamine	2 U	2.4 U	2.1 U	2	2.4	2.2
n-Nitrosodiphenylamine	5 U	6 U	5.2 U	5	6	5.4
N-Nitrosomethylamine	5 U	6 U	5.2 U	5	6	5.4
N-Nitrosomorpholine	5 U	6 U	5.2 U	5	6	5.4
N-Nitrosopiperidine	5 U	6 U	5.2 U	5	6	5.4
N-Nitrosopyrrolidine	5 U	6 U	5.2 U	5	6	5.4
o-Toluidine	5 U	6 U	5.2 U	5	6	5.4
p-(Dimethylamine)azobenzene	5 U	6 U	5.2 U	5	6	5.4
Pentachlorobenzene	5 U	6 U	5.2 U	5	6	5.4
Pentachlorophenol	10 U	12 U	10 U	10	12	10.7
Phenanthere	1 U	1.2 U	1 U	1	1.2	1.1
Phenol	2 U	2.4 U	15.8	2	15.8	6.7
Pyrene	1 U	1.2 U	1 U	1	1.2	1.1
Salicylic acid	100 U	120 U	100 U	100	120	106.7

Notes:

J=Not detected

J = Indicates an estimated value

Grey Italics = Indicates reported data is from a dilution, reanalysis or extraction

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 Impoundments 1 and 2 Characterization Program

Table 18

Metals Water Cap Data

Sample ID	IM01DUPL 02_04192010	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Sample Date	4/19/2010	4/19/2010	4/19/2010			
Sample Matrix	WW	WW	WW			
Unit	ug/l	ug/l	ug/l			
Metals						
Aluminum	200 U	200 U	365	200	365	255
Antimony	6 U	6 U	6 U	6	6	6
Arsenic	3 U	3 U	3 U	3	3	3
Barium	200 U	200 U	200 U	200	200	200
Beryllium	1 U	1 U	1 U	1	1	1
Cadmium	3 U	3 U	3 U	3	3	3
Calcium	5,000 U	5,000 U	5,000 U	5,000	5,000	5000
Chromium	10 U	10 U	10 U	10	10	10
Cobalt	50 U	50 U	50 U	50	50	50
Copper	25.6	21.9	11.5	11.5	25.6	19.7
Iron	1,620	1,590	2,870	1,590	2,870	2,027
Lead	3 U	3 U	3 U	3	3	3
Magnesium	5,000 U	5,000 U	5,000 U	5,000	5,000	5,000
Manganese	405	396	969	396	969	590
Mercury	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2
Nickel	10 U	10 U	10.9	10	10.9	10
Potassium	10,000 U	10,000 U	10,000 U	10,000	10,000	10,000
Selenium	10 U	10 U	10 U	10	10	10
Silver	10 U	10 U	10 U	10	10	10
Sodium	10,000 U	10,000 U	10,000 U	10,000	10,000	10,000
Thallium	10 U	10 U	10 U	10	10	10
Vanadium	50 U	50 U	50 U	50	50	50
Zinc	20 U	29.8	20 U	20	29.8	23.3

Notes:

U=Not detected

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Table 19
General Chemistry Water Cap Data

Sample ID	IM01DUP1 02_04192010	Sample Date	4/19/2010	Sample Matrix	WW	IM01WCAP 01_04192010	4/19/2010	IM02WCAP 01_04192010	4/19/2010	Minimum	Maximum	Mean
General Chemistry												
BOD, 5 Day (mg/l)	5.7		5.6		13.1		5.6	13.1		8.1		
Carbonaceous Bod, 5 Day (mg/l)	5.5		3.5		11.4		3.5	11.4		6.8		
Chemical Oxygen Demand (mg/l)	61.7		64.7		100		61.7	100		75.5		
Nitrogen, Ammonia (mg/l)	0.2 U		0.2 U		0.2 U		0.2	0.2		0.2		
Oil & Grease (mg/l)	5.6 U		5.7 U		5.6 U		5.6	5.7		5.6		
pH (su)	6.58		8.73		8		6.58	8.73		8.0 ^		
Total Dissolved Solids (mg/l)	47		46		79		46	79		57.3		
Total Organic Carbon (mg/l)	15.8		14.5		22		14.5	22		17.4		
Total Suspended Solids (mg/l)	6		6		15		6	15		9.0		
HEM Petroleum Hydrocarbons (mg/l)	5.3 U		5 U		5 U		5	5.3		5.1		

Notes:

U=Not detected

Grey Italics = Indicates reported

data is from a dilution, reanalysis

or extraction

^ Value presented is the median and not the mean

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 Impoundments 1 and 2 Characterization Program

Table 20
Explosives Water Cap Data

Sample ID	IM01DUPL 02_04192010	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Sample Date	4/19/2010	4/19/2010	4/19/2010			
Sample Matrix	WW	WW	WW			
Unit	ug/l	ug/l	ug/l			
Explosives						
2,4-Dinitrotoluene	2 U	2.4 U	2.1 U	2	2.4	2.2
2,6-Dinitrotoluene	2 U	2.4 U	2.1 U	2	2.4	2.2
Nitrobenzene	1.1 J	2.4 U	2.1 U	1.1	2.4	1.9

Notes:

U=Not detected

J = Indicates an estimated value

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Table 21
Fatty Acids Water Cap Data

Sample ID	IM01DUPL 02_04192010	Sample Date	4/19/2010	Sample Matrix	WW	Unit	mg/l	IM01WCAP 01_04192010	IM02WCAP 01_04192010	Minimum	Maximum	Mean
Fatty Acids												
Acetic acid	1 U		1 U		1 U			1	1	1	1	1.0
Butanoic acid	1 J		1 U		0.6 J			0.6	1	1	0.9	
Lactic Acid and HIBA	25 UM		25 UM		25 UM			25	25	25	25.0	
Propionic Acid	1 U		1 U		3.9 U			1	3.9	3.9	2.0	
Pyruvic Acid	10 U		10 U		10 U			10	10	10	10.0	

Notes:

U=Not detected

J = Indicates an estimated value

M=presence of material is verified but not quantified, the actual value is less than the value given.

The reported value shall be the laboratory PQL

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Table 22

Impoundment 1 VOC Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	ug/kg	ug/kg
VOCs		
1,1,1,2-Tetrachloroethane	490000 U	640000 U
1,1,1-Trichloroethane	490000 U	640000 U
1,1,2,2-Tetrachloroethane	490000 U	640000 U
1,1,2-Trichloroethane	490000 U	640000 U
1,1-Dichloroethane	490000 U	640000 U
1,1-Dichloroethene	490000 U	640000 U
1,2,3-Trichlorobenzene	490000 U	640000 U
1,2,3-Trichloropropane	490000 U	640000 U
1,2,4-Trichlorobenzene	490000 U	640000 U
1,2-Dibromo-3-chloropropane	990000 U	1300000 U
1,2-Dibromoethane	99000 U	130000 U
1,2-Dichlorobenzene	2550000	720000
1,2-Dichloroethane	99000 U	130000 U
1,2-Dichloropropane	490000 U	640000 U
1,3,5-Trimethylbenzene	1000000	287000 J
1,3-Dichlorobenzene	35300 J	640000 U
1,3-Dichloropropene (total)	490000 U	640000 U
1,4-Dichlorobenzene	157000 J	48100 J
1,4-Dioxane	12000000 U	16000000 U
2-Butanone	990000 U	1300000 U
2-Hexanone	490000 U	640000 U
2-Nitropropane	990000 U	1300000 U
4-Methyl-2-pentanone	490000 U	640000 U
Acetone	990000 U	1300000 U
Acetonitrile	9900000 U	13000000 U
Acrolein	4900000 U	6400000 U
Acrylonitrile	4900000 U	6400000 U
Allyl chloride	490000 U	640000 U
Benzene	54100000	69600000
Bromochloromethane	490000 U	640000 U
Bromodichloromethane	490000 U	640000 U
Bromoform	490000 U	640000 U
Bromomethane	490000 U	640000 U
Carbon Disulfide	116000 J	113000 J
Carbon Tetrachloride	490000 U	640000 U
Chlorobenzene	490000 U	640000 U
Chloroethane	490000 U	640000 U
Chloroform	490000 U	640000 U
Chloromethane	490000 U	640000 U
Chloroprene	490000 U	640000 U
cis-1,2-Dichloroethene	490000 U	640000 U
cis-1,3-Dichloropropylene	490000 U	640000 U
Cyclohexane	490000 U	640000 U
Dibromochloromethane	490000 U	640000 U

Wyeth Holdings Corporation
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Table 22

Impoundment 1 VOC Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	ug/kg	ug/kg
VOCs		
Dichlorodifluoromethane	490000 U	640000 U
Di-Isopropyl ether	490000 U	640000 U
Ethanol	170000 U	200000 U
Ethyl Acetate	490000 U	640000 U
Ethyl Acrylate	490000 U	640000 U
Ethyl Ether	490000 U	640000 U
Ethylbenzene	267000	221000
Freon 113	490000 U	640000 U
Isobutyl Alcohol	170000 U	200000 U
Isopropylbenzene	810000	672000
m,p-Xylene	3650000	2500000
Methacrylonitrile	990000 U	1300000 U
Methanol	340000 U	410000 U
Methyl Acetate	490000 U	640000 U
Methyl Cyclohexane	490000 U	640000 U
Methyl methacrylate	990000 U	1300000 U
Methyl Tert Butyl Ether	99000 U	130000 U
Methylene Chloride	490000 U	640000 U
n-Butyl Alcohol	170000 U	200000 U
n-Propyl Alcohol	170000 U	200000 U
o-Xylene	1000000	595000
sec-Butyl Alcohol	170000 U	200000 U
Styrene	490000 U	640000 U
Tert Butyl Alcohol	2500000 U	3200000 U
Tetrachloroethene	490000 U	640000 U
Tetrahydrofuran	990000 U	1300000 U
Toluene	14900000	17400000
trans-1,2-Dichloroethene	490000 U	640000 U
trans-1,3-Dichloropropene	490000 U	640000 U
Trichloroethene	490000 U	640000 U
Trichlorofluoromethane	490000 U	640000 U
Vinyl Acetate	990000 U	1300000 U
Vinyl Chloride	490000 U	640000 U
Xylene (Total)	4650000	3090000

Notes:

U= Not Detected

J = Indicates estimated value

Wyeth Holdings Corporation
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Table 23

Impoundment 1 SVOC Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	ug/kg	ug/kg
SVOCs		
1,1'-Biphenyl	135000	6860 J
1,2,4,5-Tetrachlorobenzene	20000 U	24000 U
1,2-Dichlorobenzene	2550000	720000
1,2-Diphenylhydrazine	7800 U	9700 U
1,4-Dichlorobenzene	157000 J	48100 J
1,4-Naphthoquinone	20000 U	24000 U
1-Chloro-2-nitrobenzene	7800 U	9700 U
2,3,4,6-Tetrachlorophenol	20000 U	24000 U
2,4,5-Trichlorophenol	20000 U	24000 U
2,4,6-Trichlorophenol	20000 U	24000 U
2,4-Dichlorophenol	20000 U	24000 U
2,4-Dimethylphenol	87800	24000 U
2,4-Dinitrophenol	78000 U	97000 U
2,4-Dinitrotoluene	7800 U	9700 U
2,6-Dinitrotoluene	7800 U	9700 U
2-Acetylaminofluorene	20000 U	24000 U
2-Chloroaniline	20000 U	24000 U
2-Chloronaphthalene	101000	9700 U
2-Chlorophenol	20000 U	24000 U
2-Methylnaphthalene	678000	91300
2-Methylphenol	43400	9700 U
2-Nitroaniline	20000 U	24000 U
2-Nitrophenol	20000 U	24000 U
3 & 4-Methylphenol	236000	31900
3,3'-Dichlorobenzidine	20000 U	24000 U
3-Nitroaniline	20000 U	24000 U
4,6-Dinitro-2-Methylphenol	78000 U	97000 U
4-Aminobiphenyl	20000 U	24000 U
4-Bromophenyl Phenyl Ether	7800 U	9700 U
4-chloro-3-Methyl Phenol	20000 U	24000 U
4-Chloroaniline	20000 U	24000 U
4-Chlorophenyl Phenyl Ether	7800 U	9700 U
4-Nitroaniline	20000 U	24000 U
4-Nitrophenol	39000 U	49000 U
Acenaphthene	3900 U	4900 U
Acenaphthylene	3900 U	4900 U
Acetophenone	750000	152000
Acrylonitrile	4900000 U	6400000 U
Aniline	1570000	180000
Anthracene	3900 U	4900 U
Atrazine	20000 U	24000 U
Benzaldehyde	20000 U	24000 U
Benzidine	78000 U	97000 U
Benzo(a)Anthracene	3900 U	4900 U

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Table 23

Impoundment 1 SVOC Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	ug/kg	ug/kg
SVOCs		
Benzo(a)Pyrene	3900 U	4900 U
Benzo(b)Fluoranthene.	3900 U	4900 U
Benzo(g,h,i)Perylene	3900 U	4900 U
Benzo(k)Fluoranthene	3900 U	4900 U
Benzoic acid	1410000	305000
Benzyl Alcohol	7800 U	9700 U
bis(2-Chloroethoxy)Methane	7800 U	9700 U
bis(2-Chloroethyl)Ether	7800 U	9700 U
bis(2-Chloroisopropyl)Ether	7800 U	9700 U
bis(2-Ethylhexyl)adipate	7800 U	9700 U
bis(2-Ethylhexyl)Phthalate	7800 U	9700 U
Butyl Benzyl Phthalate	7800 U	9700 U
Caprolactam	7800 U	9700 U
Carbazole	7800 U	9700 U
Catechol	39000 U	49000 U
Chlorobenzilate	20000 U	24000 U
Chrysene	3900 U	4900 U
Dibenzo(a,h)Anthracene	3900 U	4900 U
Dibenzofuran	94100	15300
Diethyl Phthalate	7800 U	9700 U
Dimethyl Phthalate	86700	9700 U
di-n-Butyl Phthalate	7800 U	9700 U
di-n-Octyl Phthalate	7800 U	9700 U
Diphenylamine	20000 U	24000 U
Fluoranthene	16200	4900 U
Fluorene	3900 U	4900 U
Hexachlorobenzene	7800 U	9700 U
Hexachlorobutadiene	3900 U	4900 U
Hexachlorocyclopentadiene	78000 U	97000 U
Hexachloroethane	20000 U	24000 U
Hydroquinone	39000 U	49000 U
Indeno(1,2,3-Cd)Pyrene	3900 U	4900 U
Isophorone	7800 U	9700 U
Isopropyl Alcohol	170000 U	200000 U
Methylcyclohexane	490000 U	640000 U
Naphthalene	12600000	1810000
Nitrobenzene	6600000	714000
N-Nitrosodiethylamine	20000 U	24000 U
n-Nitrosodimethylamine	7800 U	9700 U
N-Nitrosodi-n-butylamine	20000 U	24000 U
n-Nitroso-di-n-Propylamine	7800 U	9700 U
n-Nitrosodiphenylamine	20000 U	24000 U
N-Nitrosomethylethylamine	20000 U	24000 U
N-Nitrosomorpholine	20000 U	24000 U

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Table 23

Impoundment 1 SVOC Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	ug/kg	ug/kg
SVOCs		
N-Nitrosopiperidine	20000 U	24000 U
N-Nitrosopyrrolidine	20000 U	24000 U
o-Toluidine	20000 U	24000 U
p-(Dimethylamine)azobenzene	20000 U	24000 U
Pentachlorobenzene	20000 U	24000 U
Pentachlorophenol	39000 U	49000 U
Phenanthrene	64400	16600
Phenol	7800 U	9700 U
Pyrene	3900 U	4900 U
Salicylic acid	390000 U	490000 U

Notes:

U= Not Detected

J = Indicates estimated value

Wyeth Holdings Corporation
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Table 24

Impoundment 1 Metals Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	mg/kg	mg/kg
Metals		
Aluminum	228	456
Antimony	3.1 U	3.9 U
Arsenic	3.1 U	5.1
Barium	31 U	39 U
Beryllium	0.31 U	0.39 U
Cadmium	0.78 U	0.98 U
Calcium	780 U	980 U
Chromium	2.7	7.4
Cobalt	7.8 U	9.8 U
Copper	59.8	53.4
Iron	438	1150
Lead	65	45.3
Magnesium	780 U	980 U
Manganese	3.5	8.2
Mercury	1.3	0.43
Nickel	6.3 U	7.8 U
Potassium	1600 U	2000 U
Selenium	5.1	5.3
Silver	0.78 U	0.98 U
Sodium	1860	2000 U
Thallium	1.6 U	2 U
Vanadium	7.8 U	9.8 U
Zinc	3.1 U	3.9 U

Notes:

U= Not Detected

J = Indicates estimated value

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Table 25
Impoundment 1 General Chemistry Oily Liquid Data

Location ID	IM01HCOL	IM01HCOL
Sample Date	5/7/2010	5/7/2010
Sample Matrix	SL	SL
Depth (ft)	4.0 - 5.0	6.0 - 7.0
Units	mg/kg	mg/kg
General Chemistry		
Chloride	869	540
Cyanide	4 U	3.5 U
Nitrogen, Ammonia	64.3	49 U
Nitrogen, Nitrate	32 U	40 U
Nitrogen, Nitrate + Nitrite	32 U	40 U
Sulfite	49 U	186

Notes:

U= Not Detected

J = Indicates estimated value

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program
Table 26
Impoundments 1 and 2 VOC Air Data

Sample ID		IM01WCAI01	IM01WCAI02	IM01VRAI01	IM01VRAI02	IM01HCAI01	IM01HCAI02
Sample Date		5/4/2010	5/5/2010	5/7/2010	5/7/2010	5/6/2010	5/7/2010
Sample Matrix		Air	Air	Air	Air	Air	Air
Units		ug/m ³	ug/m ³				
VOCs	HAP						
Acetone	N	15	33 U	12,000	40,400	16,500	7,860
1,3-Butadiene	Y	1.9 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U
Benzene	Y	233	107,000	87,200,000	5,180,000	110,000,000	86,900,000
Bromodichloromethane	N	4.5 U	66 U	2,500 U	2,500 U	2,600 U	2,500 U
Bromoform	Y	5.5 U	80 U	3,000 U	3,000 U	3,100 U	3,000 U
Bromomethane	Y	2.3 U	33 U	1,200 U	1,200 U	1,300 U	1,200 U
Bromoethene	Y	1.9 U	28 U	1,000 U	1,000 U	1,100 U	1,000 U
Benzyl Chloride	Y	4.1 U	62 U	2,300 U	2,200 U	2,400 U	2,200 U
Carbon disulfide	Y	2.5 U	374	233,000	7,220 J	149,000	392,000
Chlorobenzene	Y	2.9 U	42 U	1,600 U	1,600 U	1,700 U	1,600 U
Chloroethane	Y	2.5 U	37 U	35,900	1,400 U	7,020 J	13,600
Chloroform	Y	3.3 U	48 U	1,800 U	1,800 U	1,900 U	1,800 U
Chloromethane	Y	2.3 U	33 U	54,300	1,300 U	25,000	83,000
3-Chloropropene	Y	2.3 U	34 U	1,300 U	1,300 U	1,300 U	1,300 U
2-Chlorotoluene	N	2.7 U	39 U	1,500 U	1,400 U	1,600 U	1,400 U
Carbon tetrachloride	Y	3.3 U	48 U	1,800 U	1,800 U	1,900 U	1,800 U
Cyclohexane	N	5.2 U	72 U	54,000	2,800 U	59,500	71,900
1,1-Dichloroethane	Y	3.2 U	45 U	1,700 U	1,700 U	1,800 U	1,700 U
1,1-Dichloroethylene	Y	4.4 U	59 U	2,300 U	2,300 U	2,400 U	2,300 U
1,2-Dibromoethane	Y	3.8 U	55 U	2,100 U	2,100 U	2,200 U	2,100 U
1,2-Dichloroethane	N	3.5 U	53 U	1,900 U	1,900 U	2,000 U	1,900 U
1,2-Dichloropropane	Y	3.2 U	46 U	1,800 U	1,700 U	1,800 U	1,700 U
1,4-Dioxane	Y	5.4 U	79 U	3,000 U	3,000 U	3,100 U	3,000 U
Dichlorodifluoromethane	N	2.8 U	41 U	1,600 U	1,500 U	1,600 U	1,500 U
Dibromochloromethane	N	7.1 U	100 U	3,900 U	3,800 U	4,000 U	3,800 U
trans-1,2-Dichloroethylene	N	3.3 U	48 U	1,900 U	1,800 U	1,900 U	1,800 U
cis-1,2-Dichloroethylene	N	2.7 U	39 U	1,500 U	1,500 U	1,500 U	1,500 U
cis-1,3-Dichloropropene	Y	2.1 U	30 U	1,100 U	1,100 U	1,200 U	1,500 U
m-Dichlorobenzene	N	4.6 U	66 U	2,500 U	2,500 U	2,600 U	2,500 U
o-Dichlorobenzene	N	5.4 U	3,840	9,740 J	14,700 J	14,200 J	7,700 J
p-Dichlorobenzene	Y	4.6 U	350 J	2,600 U	2,500 U	2,600 U	2,500 U
trans-1,3-Dichloropropene	Y	1.8 U	25 U	950 U	950 U	100 U	950 U
Ethanol	N	25	51 U	1,900 U	1,900 U	2,100 U	1,900 U
Ethylbenzene	Y	2 U	843	49,500	15,200	74,700	39,700
Ethyl Acetate	N	4.3 U	65 U	2,400 U	2,400 U	2,600 U	2,400 U
4-Ethyltoluene	N	4.9 U	74 U	2,900 U	2,800 U	2,900 U	2,800 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 26
Impoundments 1 and 2 VOC Air Data

Sample ID		IM01WCAI01	IM01WCAI02	IM01VRAI01	IM01VRAI02	IM01HCAI01	IM01HCAI02
Sample Date		5/4/2010	5/5/2010	5/7/2010	5/7/2010	5/6/2010	5/7/2010
Sample Matrix		Air	Air	Air	Air	Air	Air
Units		ug/m ³					
VOCs	HAP						
Freon 113	N	4.1 U	59 U	2,200 U	2,100 U	2,300 U	2,100 U
Freon 114	N	3.7 U	54 U	2,000 U	2,000 U	2,100 U	2,000 U
Heptane	N	2.5 U	36 U	98,800	1,400 U	90,600	105,000
Hexachlorobutadiene	Y	11 U	160 U	6,100 U	6,000 U	6,300 U	6,000 U
Hexane	Y	1.6 U	24 U	192,000	880 U	133,000	255,000
2-Hexanone	N	3 U	45 U	1,600 U	1,600 U	1,700 U	1,600 U
Isopropyl Alcohol	N	2 U	29 U	1,100 U	1,100 U	1,200 U	1,100 U
Methylene chloride	Y	2.1 U	31 U	1,100 U	1,100 U	1,200 U	1,100 U
Methyl ethyl ketone	Y	2.8 U	41 U	1,500 U	1,500 U	1,600 U	1,500 U
Methyl Isobutyl Ketone	Y	4.5 U	66 U	2,500 U	2,400 U	2,500 U	2,400 U
Methyl Tert Butyl Ether	Y	1.9 U	28 U	1,100 U	1,000 U	1,100 U	1,000 U
Propylene	N	2.6 U	36 U	1,400 U	1,400 U	1,500 U	1,400 U
Styrene	Y	1.9 U	27 U	1,000 U	1,000 U	1,100 U	1,000 U
1,1,1-Trichloroethane	Y	3.2 U	47 U	1,800 U	1,700 U	1,900 U	1,700 U
1,1,2,2-Tetrachloroethane	Y	3.7 U	54 U	2,100 U	2,100 U	2,100 U	2,100 U
1,1,2-Trichloroethane	Y	2.8 U	40 U	1,500 U	1,500 U	1,600 U	1,500 U
1,2,4-Trichlorobenzene	Y	12 U	170 U	6,500 U	6,300 U	6,700 U	6,300 U
1,2,4-Trimethylbenzene	N	2.5 U	1,840	12,900 J	16,700	17,400	9,680 J
1,3,5-Trimethylbenzene	N	3 U	1,290	15,800	15,300	22,700	11,800 J
2,2,4-Trimethylpentane	Y	2.2 U	33 U	1,300 U	1,200 U	1,300 U	1,200 U
Tertiary Butyl Alcohol	N	1.7 U	25 U	940 U	910 U	5,760 J	910 U
Tetrachloroethylene	Y	3.4 U	50 U	1,900 U	1,800 U	2,000 U	1,800 U
Tetrahydrofuran	N	2.2 U	32 U	1,200 U	1,200 U	1,300 U	1,200 U
Toluene	Y	42	41,100	6,410,000	1,100,000	9,350,000	5,990,000
Trichloroethylene	Y	2.4 U	35 U	1,300 U	1,300 U	1,400 U	1,300 U
Trichlorofluoromethane	N	2.9 U	42 U	1,600 U	1,600 U	1,600 U	1,600 U
Vinyl chloride	Y	1.4 U	21 U	790 U	770 U	820 U	770 U
Vinyl Acetate	Y	3.9 U	56 U	2,100 U	2,100 U	2,200 U	2,100 U
m,p-Xylene	Y	4.8 U	9,950	447,000	176,000	673,000	361,000
o-Xylene	Y	2.4 U	2,230	85,600	38,100	132,000	67,800
Xylenes (total)	Y	2.4 U	12,200	534,000	214,000	804,000	429,000

Notes:

U = Compound not detected

J = Estimated value

Bold = Compound was detected

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 26

Impoundments 1 and 2 VOC Air Data

Sample ID		IM02WCAI01	IM02WCAI02	IM02VRAI01	IM02VRAI02	IM02HCAI01	IM02HCAI02
Sample Date		5/6/2010	5/6/2010	5/4/2010	5/5/2010	5/5/2010	5/4/2010
Sample Matrix		Air	Air	Air	Air	Air	Air
Units		ug/m ³	ug/m ³				
VOCs	HAP						
Acetone	N	48 U	48 U	33,700	82,900	137,000	27,800
1,3-Butadiene	Y	40 U	42 U	950 U	910 U	1,200 U	1,000 U
Benzene	Y	202,000	222,000	28,400,000	70,600,000	135,000,000	40,300,000
Bromodichloromethane	N	94 U	100 U	2,200 U	2,100 U	2,500 U	2,300 U
Bromoform	Y	110 U	110 U	2,700 U	2,600 U	3,000 U	2,900 U
Bromomethane	Y	47 U	50 U	1,100 U	1,000 U	1,200 U	1,200 U
Bromoethene	Y	40 U	42 U	960 U	920 U	1,000 U	1,000 U
Benzyl Chloride	Y	88 U	88 U	2,000 U	2,000 U	2,300 U	2,200 U
Carbon disulfide	Y	632	654	186,000	436,000	691,000	154,000
Chlorobenzene	Y	60 U	60 U	1,400 U	1,300 U	1,600 U	1,500 U
Chloroethane	Y	53 U	55 U	6,330	1,200 U	88,900	35,600
Chloroform	Y	68 U	73 U	1,600 U	1,600 U	1,800 U	1,700 U
Chloromethane	Y	47 U	50 U	43,400	227,000	1,760,000	599,000
3-Chloropropene	Y	47 U	50 U	1,100 U	1,100 U	1,300 U	1,200 U
2-Chlorotoluene	N	57 U	57 U	1,300 U	1,300 U	1,500 U	1,400 U
Carbon tetrachloride	Y	69 U	69 U	1,600 U	1,600 U	1,800 U	1,800 U
Cyclohexane	N	110 U	110 U	32,300	84,300	105,000	26,800
1,1-Dichloroethane	Y	65 U	69 U	1,500 U	1,500 U	1,700 U	1,600 U
1,1-Dichloroethylene	Y	87 U	91 U	2,100 U	2,000 U	2,300 U	2,200 U
1,2-Dibromoethane	Y	77 U	85 U	1,800 U	1,800 U	2,100 U	200 U
1,2-Dichloroethane	N	73 U	77 U	1,700 U	1,700 U	1,900 U	1,800 U
1,2-Dichloropropane	Y	65 U	69 U	1,600 U	1,500 U	1,800 U	1,700 U
1,4-Dioxane	Y	110 U	120 U	2,700 U	2,600 U	3,000 U	2,800 U
Dichlorodifluoromethane	N	59 U	59 U	1,400 U	1,300 U	1,600 U	1,500 U
Dibromochloromethane	N	140 U	150 U	3,500 U	3,300 U	3,900 U	3,700 U
trans-1,2-Dichloroethylene	N	71 U	71 U	1,600 U	1,600 U	1,900 U	1,700 U
cis-1,2-Dichloroethylene	N	56 U	59 U	1,300 U	1,300 U	1,500 U	1,400 U
cis-1,3-Dichloropropene	Y	44 U	45 U	1,000 U	1,000 U	1,100 U	1,100 U
m-Dichlorobenzene	N	96 U	100 U	2,300 U	2,200 U	2,500 U	2,400 U
o-Dichlorobenzene	N	6,490	10,800	14,300 J	20,300	3,000 U	17,100
p-Dichlorobenzene	Y	553 J	962	2,300 U	2,200 U	2,600 U	2,400 U
trans-1,3-Dichloropropene	Y	37 U	38 U	860 U	820 U	950 U	910 U
Ethanol	N	72 U	75 U	900 U	1,600 U	11,600 J	1,800 U
Ethylbenzene	Y	1,630	2,060	24,600	51,700	37,700	24,000
Ethyl Acetate	N	94 U	97 U	2,200 U	960 U	2,400 U	2,300 U
4-Ethyltoluene	N	282 J	366 J	2,500 U	2,400 U	2,900 U	2,700 U

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 26

Impoundments 1 and 2 VOC Air Data

Sample ID		IM02WCAI01	IM02WCAI02	IM02VRAI01	IM02VRAI02	IM02HCAI01	IM02HCAI02
Sample Date		5/6/2010	5/6/2010	5/4/2010	5/5/2010	5/5/2010	5/4/2010
Sample Matrix		Air	Air	Air	Air	Air	Air
Units		ug/m ³					
VOCs	HAP						
Freon 113	N	84 U	84 U	2,000 U	1,900 U	2,200 U	2,100 U
Freon 114	N	77 U	77 U	1,800 U	1,700 U	2,000 U	1,900 U
Heptane	N	318 J	376 J	51,200	149,000	143,000	38,800
Hexachlorobutadiene	Y	230 U	230 U	5,400 U	5,200 U	6,100 U	5,800 U
Hexane	Y	34 U	35 U	116,000	332,000	388,000	77,500
2-Hexanone	N	61 U	65 U	1,500 U	1,400 U	1,600 U	1,600 U
Isopropyl Alcohol	N	42 U	44 U	1,000 U	960 U	1,100 U	1,100 U
Methylene chloride	Y	45 U	45 U	1,000 U	970 U	1,100 U	1,100 U
Methyl ethyl ketone	Y	59 U	59 U	1,400 U	1,300 U	17,900	1,400 U
Methyl Isobutyl Ketone	Y	94 U	94 U	2,200 U	2,100 U	2,500 U	2,300 U
Methyl Tert Butyl Ether	Y	40 U	43 U	940 U	900 U	1,100 U	1,000 U
Propylene	N	53 U	55 U	1,200 U	1,200 U	1,400 U	1,300 U
Styrene	Y	39 U	41 U	940 U	890 U	1,000 U	980 U
1,1,1-Trichloroethane	Y	65 U	71 U	1,600 U	1,500 U	1,800 U	1,700 U
1,1,2,2-Tetrachloroethane	Y	76 U	82 U	1,900 U	1,800 U	2,100 U	1,900 U
1,1,2-Trichloroethane	Y	60 U	60 U	1,400 U	1,300 U	1,500 U	1,500 U
1,2,4-Trichlorobenzene	Y	240 U	250 U	5,700 U	5,500 U	6,500 U	6,100 U
1,2,4-Trimethylbenzene	N	3,240	4,640	8,010 J	14,700	1,400 U	7,330 J
1,3,5-Trimethylbenzene	N	2,380	3,140	8,500 J	16,100	1,700 U	7,770 J
2,2,4-Trimethylpentane	Y	47 U	51 U	1,100 U	1,100 U	1,300 U	1,200 U
Tertiary Butyl Alcohol	N	36 U	36 U	820 U	790 U	940 U	880 U
Tetrachloroethylene	Y	68 U	75 U	1,700 U	1,600 U	1,900 U	1,800 U
Tetrahydrofuran	N	47 U	50 U	1,100 U	1,100 U	1,200 U	1,200 U
Toluene	Y	78,800	94,200	3,400,000	6,750,000	9,010,000	3,130,000
Trichloroethylene	Y	50 U	52 U	1,200 U	1,100 U	1,300 U	1,200 U
Trichlorofluoromethane	N	62 U	62 U	1,400 U	1,300 U	1,600 U	1,500 U
Vinyl chloride	Y	31 U	31 U	690 U	660 U	790 U	740 U
Vinyl Acetate	Y	81 U	84 U	1,900 U	1,800 U	2,100 U	2,000 U
m,p-Xylene	Y	19,000	24,100	210,000	420,000	278,000	213,000
o-Xylene	Y	4,290	5,390	39,600	81,200	45,200	38,700
Xylenes (total)	Y	23,300	29,400	249,000	500,000	324,000	252,000

Notes:

U = Compound not detected

J = Estimated value

Bold = Compound was detected

Wyeth Holdings Corporation
 Former American Cyanamid Site
 Impoundments 1 and 2 Characterization Program

Table 27
Impoundments 1 and 2 Other Air Data

Sample ID		IM01WCAI01	IM01WCAI02	IM01VRAI01	IM01VRAI02	IM01HCAI01	IM01HCAI02
Sample Date		5/4/2010	5/5/2010	5/7/2010	5/7/2010	5/6/2010	5/7/2010
Units	HAP	ug/m ³					
Crotonaldehyde	N	20 U	20 U	24	20	430	180
Butyraldehyde	N	20 U	20 U	20 U	40	20 U	20 U
Benzaldehyde	N	20 U					
Isovaleraldehyde	N	20 U	20 U	1,900	230	3,800	1,600
Formaldehyde	Y	50	20 U				
Acetaldehyde	Y	20 U	20 U	30	250	190	20
Propionaldehyde	Y	20 U					
Valeraldehyde	N	20 U	20 U	20 U	70	20 U	20 U
Sulfuric Acid	N	830 U					
Hydrochloric Acid	Y	830 U					
Nitric Acid	N	830 U					
Phosphoric Acid	N	830 U					
Hydrobromic Acid	N	830 U					
Hydrofluoric Acid	N	830 U					
Hydrogen Sulfide	Y	1,800 U	1,800 U	19,000 *	1,800 U	7,700 *	43,000 *

Notes:

U = Compound not detected above the indicated value

* = Possible breakthrough or migration.
 Results may be biased low.

Bold = Compound was detected

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program

Table 27
Impoundments 1 and 2 Other Air Data

Sample ID		IM02WCAI01	IM02WCAI02	IM02VRAI01	IM02VRAI02	IM02HCAI01	IM02HCAI02
Sample Date		5/6/2010	5/6/2010	5/4/2010	5/5/2010	5/5/2010	5/4/2010
Units		ug/m ³					
	HAP						
Crotonaldehyde	N	20 U	20 U	260	400	180	250
Butyraldehyde	N	20 U					
Benzaldehyde	N	20 U					
Isovaleraldehyde	N	20	20 U	1,200	1,900	950	1,600
Formaldehyde	Y	20	20 U	20	20 U	20 U	20 U
Acetaldehyde	Y	20 U	20 U	40	30	20 U	20
Propionaldehyde	Y	20 U					
Valeraldehyde	N	20 U					
Sulfuric Acid	N	830 U	830 U	2,400	1,400	1,900	20,000 *
Hydrochloric Acid	Y	830 U					
Nitric Acid	N	830 U					
Phosphoric Acid	N	830 U					
Hydrobromic Acid	N	830 U					
Hydrofluoric Acid	N	830 U					
Hydrogen Sulfide	Y	1,800 U	1,800 U	91,000 *	5,900 *	220,000	530,000 *

Notes:

U = Compound not detected above the indicated value

* = Possible breakthrough or migration.

Results may be biased low.

Bold = Compound was detected

Wyeth Holdings Corporation
Former American Cyanamid Site
Impoundments 1 and 2 Characterization Program
Table 28
Air Detected Compound Summary

Sample ID Sample Date Sample Matrix Units	HAP	TXS	Low Odor Threshold ($\mu\text{g}/\text{m}^3$)	High Odor Threshold ($\mu\text{g}/\text{m}^3$)	Impoundment 1 ($\mu\text{g}/\text{m}^3$)			Impoundment 2 ($\mu\text{g}/\text{m}^3$)		
					Min	Max	Mean	Min	Max	Mean
VOCs										
Acetone	N	N	30,862 ^a	47,480 ^a	15	40,400	15,355	27,800	137,000	70,350
Benzene	Y	Y	2,500 ^b	510,000 ^b	233	110,000,000	48,231,206	202,000	135,000,000	45,787,333
Carbon disulfide	Y	N	50 ^b	1,300 ^b	374	392,000	156,319	632	691,000	244,714
Chloroethane	Y	N	11,088 ^c	11,088 ^c	7,020	35,900	18,840	6,330	88,900	43,610
Chloromethane	Y	N	21,000 ^b	21,000 ^b	25,000	83,000	54,100	43,400	1,760,000	657,350
Cyclohexane	N	N	66,073 ^d	1,032,883 ^d	54,000	71,900	61,800	26,800	105,000	62,100
1,2-Dichlorobenzene	N	N	12,020 ^e	300,613 ^e	3,840	14,700	10,036	6,490	20,300	13,798
1,4-Dichlorobenzene	Y	N	730 ^b	90,000 ^b	350	350	350	553	962	758
Ethanol	N	N	18,842 ^f	18,842 ^f	25	25	25	11,600	11,600	11,600
Ethylbenzene	Y	N	400 ^b	2,600 ^b	843	74,700	35,989	1,630	51,700	23,615
4-Ethyltoluene	N	N	41 ^g	41 ^g	ND	ND	ND	282	366	324
Heptane	N	N	204,900 ^h	901,595 ^h	90,600	105,000	98,133	318	149,000	63,782
Hexane	Y	N	230,000 ^b	875,000 ^b	133,000	255,000	193,333	77,500	388,000	228,375
Methyl ethyl ketone	Y	N	750 ^b	250,000 ^b	ND	ND	ND	17,900	17,900	17,900
1,2,4-Trimethylbenzene	N	N	1,968 ⁱ	1,968 ⁱ	1,840	17,400	11,704	3,240	14,700	7,584
1,3,5-Trimethylbenzene	N	N	2,703 ^j	2,703 ^j	1,290	22,700	13,378	2,380	16,100	7,578
Tertiary Butyl Alcohol	N	N	220,940 ^k	220,940 ^k	5,760	5,760	ND	ND	ND	ND
Toluene	Y	N	80 ^b	170,000 ^b	42	9,350,000	3,815,190	78,800	9,010,000	3,743,833
m,p-Xylene	Y	N	350 ^b	86,000 ^b	9,950	673,000	333,390	19,000	420,000	194,017
o-Xylene	Y	N	770 ^b	23,600 ^b	2,230	132,000	65,146	4,290	81,200	35,730
Xylenes (total)	Y	N	4,335 ^l	4,335 ^l	12,200	804,000	398,640	23,300	500,000	229,617
Other Compounds										
Crotonaldehyde	N	N	100 ^m	177 ^m	20	430	164	180	400	273
Butyraldehyde	N	N	14 ⁿ	14 ⁿ	40	40	40	ND	ND	ND
Isovaleraldehyde	N	N	0.35 ^g	0.35 ^g	230	3,800	1,883	20	1,900	1,134
Formaldehyde	Y	N	1,200 ^b	12,000,000 ^b	50	50	50	20	20	20
Acetaldehyde	Y	N	120 ^b	1,800,000 ^b	20	250	123	20	40	30
Valeraldehyde	N	N	1.44 ^g	1.44 ^g	70	70	70	ND	ND	ND
Sulfuric Acid	N	N	-- ^o	-- ^o	ND	ND	ND	1,400	20,000	6,425
Hydrogen Sulfide	Y	N	0.70 ^p	418 ^p	7,700	43,000	23,233	5,900	530,000	211,725

Notes:

U = Compound not detected

J = Estimated value

Bold = Compound was detected

-- = Value not available

Y = Yes

N = No

HAP = Hazardous Air Pollutant

TXS = Toxic Screening Criteria

a = Odor thresholds are provided in the USEPA Toxicology Review of Acetone in support of Summary Information on the IRIS, August 2001.

b = Odor thresholds are provided in the Reference Guide to Odor Thresholds for Hazardous Air Pollutants Listed in the Clean Air Act Amendments of 1990.(EPA/600/R-92/047)

c = Odor thresholds are provided on the USEPA Technology Transfer Network Air Toxics Web Site for Ethyl Chloride - accessed 10/08/10.

d= Odor thresholds are provided in the OSHA Guideline for Cyclohexane, accessed via the internet on 10/08/10.

e = Odor thresholds are provided in the U.S. Department of Health and Human Services & U.S. Department of Labor Occupational Health Guideline for o-Dichlorobenzene. September 1978.

f = Odor thresholds are provided in the IDPH Toxicology Manual for Ethanol, Methanol, Tert-butyl Alcohol, 2010. Accessed via the internet 10/08/10.

g= Odor thresholds are provided from the Measurement of Odor Threshold by Triangle Odor Bag Method. Yoshio Nagata. Accessed via the internet 10/08/10.

h= Odor thresholds are provided in the U.S. Department of Health and Human Services & U.S. Department of Labor Occupational Health Guideline for Heptane. September 1978.

i = Odor thresholds are provided in the USEPA Office of Pollution Prevention and Toxics Chemical Summary for 1,2,4 - Trimethylbenzene. August 1994.

j= Odor thresholds are provided in the OSHA Guideline for Triphenyl Benzene, accessed via the internet on 10/08/10

k= Odor thresholds are provided in the U.S. Department of Health and Human Services & U.S. Department of Labor Occupational Health Guideline for tert-Butyl-Alcohol. September 1978.

l= Odor thresholds are provided in the OSHA Guideline for Triphenyl Benzene, accessed via the internet on 10/08/10

m = Odor thresholds are provided in the U.S. Department of Health and Human Services & U.S. Department of Labor Occupational Health Guideline for Crotonaldehyde. September 1978.

n =Odor thresholds are provided in the USEPA Office of Pollution Prevention and Toxics Chemical Summary for Butyraldehyde. December 1994.

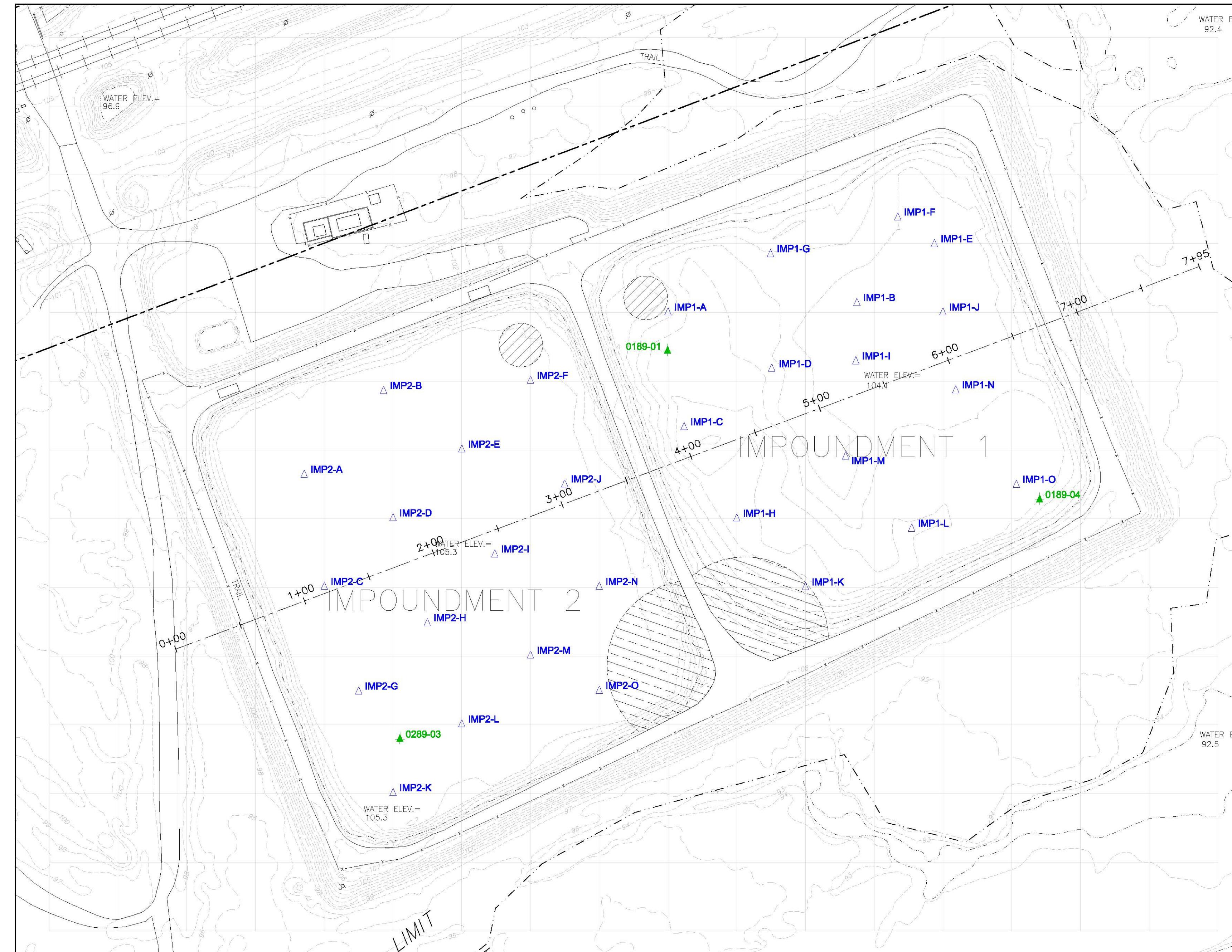
o = Reported as odorless - New Jersey Department of Health and Senior Services, Right to Know Fact Sheet. Accessed via the internet on 10/08/10.

p = Odor thresholds are provided in the ATSDR CDC Toxic Profiles for Hydrogen Sulfide. Section 4 - Chemical and Physical Information.

Figures

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Figure 20: Impoundment 2 Metals Sludge Results
Figure 21: Impoundment 2 General Chemistry Sludge Results

**NOTES:**

1. WHERE AVAILABLE, HISTORICAL SAMPLE LOCATIONS ARE PRESENTED. HOWEVER, MOST HISTORICAL SAMPLES WERE COLLECTED FROM EXCAVATED MATERIAL AND SPECIFIC LOCATION INFORMATION IS NOT AVAILABLE. APPROXIMATE LOCATION INFORMATION IS PRESENTED.
2. COAL AGGREGATE SAMPLES WERE CO-LOCATED WITH SLUDGE SAMPLING LOCATIONS AS FOLLOWS:
IMP1-B & IMP1-P
IMP1-E & IMP1-Q
IMP1-G & IMP1-R
IMP1-I & IMP1-S
IMP1-J & IMP1-T
3. THESE SAMPLES WERE COLLECTED BUT NOT PROVIDED TO THE LABORATORY FOR ANALYSIS. ANALYSIS OF THESE SAMPLES CAN BE COMPLETED AT PFIZER'S REQUEST.
4. SAMPLE COLLECTED OF YELLOW OILY LIQUID.

Sample ID	Depth	Date	Note
Water Cap Samples			
IM01WCAPO1		4/19/2010	
IM01DUP02		4/19/2010	
IM02WCAPO1		4/19/2010	
Impoundment 1			
Location A			
IM01VR0A01	2'-3' FT	4/30/2010	
IM01HC0A02	3'-4' FT	4/30/2010	
Location B			
IM01CA0P01	2'-3' FT	5/5/2010	
IM01HC0B02	4'-5' FT	5/5/2010	
Location C			
IM01VR0C01	1'-2' FT	4/30/2010	
Location D			
IM01VR0D01	2'-3' FT	5/5/2010	
IM01HC0D02	4'-5' FT	5/5/2010	*3
Location E			
IM01CA0Q01	2'-3' FT	5/4/2010	
IM01HC0E02	4'-5' FT	5/4/2010	
Location F			
IM01VR0F01	2'-3' FT	5/4/2010	
IM01HC0F02	6'-7' FT	5/4/2010	
IM01WTRF01	0'-3' FT	5/7/2010	*4
Location G			
IM01CA0R01	2'-3' FT	5/3/2010	
IM01DU0P01	5'-6' FT	5/3/2010	
IM01HC0G02	5'-6' FT	5/3/2010	
Location H			
IM01VR0H01	1'-2' FT	4/30/2010	
IM01HC0H02	7'-8' FT	4/30/2010	*3
Location I			
IM01CA0S01	1'-2' FT	5/5/2010	
IM01HC0I02	3'-4' FT	5/5/2010	
Location J			
IM01CA0T01	1'-2' FT	5/4/2010	*3
IM01HC0J02	5'-6' FT	5/4/2010	
Location K			
IM01VR0K01	1'-2' FT	5/6/2010	
IM01HC0K02	6'-7' FT	5/6/2010	
Location L			
IM01VR0L01	2'-3' FT	5/6/2010	*3
IM01HC0L02	4'-5' FT	5/6/2010	
IM01HC0L03	6'-7' FT	5/6/2010	
Location M			
IM01VR0M01	1'-2' FT	5/5/2010	
IM01HC0M02	7'-8' FT	5/5/2010	
Location N			
IM01VR0N01	1'-2' FT	5/4/2010	*3
IM01HC0N02	5'-6' FT	5/4/2010	
Location O			
IM01VR0O01	2'-3' FT	5/6/2010	
IM01HC0O02	5'-6' FT	5/6/2010	
Impoundment 2			
Location A			
IM02VR0A01	3'-4' FT	4/22/2010	
IM02HC0A02	8'-9' FT	4/22/2010	
Location B			
IM02VR0B01	1'-2' FT	4/22/2010	
IM02HC0B02	4'-5' FT	4/22/2010	
Location C			
IM02VR0C01	1'-2' FT	4/26/2010	
IM02HC0C02	6'-7' FT	4/26/2010	
Location D			
IM02VR0D01	2'-3' FT	4/22/2010	
IM02HC0D02	5'-6' FT	4/22/2010	
Location E			
IM02VR0E01	3.5'-4' FT	4/21/2010	
IM02HC0E02	7'-7.5' FT	4/21/2010	
Location F			
IM02VR0F01	1.5'-2' FT	4/20/2010	
IM02IN0F02	5'-5.5' FT	4/21/2010	
IM02HC0F03	7.5'-8' FT	4/21/2010	
Location G			
IM02VR0G01	3'-4' FT	4/26/2010	
IM02HC0G02	6'-7' FT	4/26/2010	
Location H			
IM02VR0H01	3'-4' FT	4/27/2010	
IM02DU0P01	3'-4' FT	4/27/2010	
IM02HC0H02	5'-6' FT	4/27/2010	*3
Location I			
IM02VR0I01	2'-3' FT	4/23/2010	
IM02HC0I02	4'-5' FT	4/23/2010	
Location J			
IM02VR0J01	2'-3' FT	4/23/2010	
IM02HC0J02	8'-9' FT	4/23/2010	
Location K			
IM02VR0K01	3'-4' FT	4/26/2010	
IM02HC0K02	7'-8' FT	4/26/2010	
Location L			
IM02VR0L01	1'-2' FT	4/27/2010	*3
IM02HC0L02	6'-7' FT	4/27/2010	
Location M			
IM02VR0M01	2'-3' FT	4/29/2010	
IM02HC0M02	5'-6' FT	4/29/2010	
Location N			
IM02VR0N01	1'-2' FT	4/23/2010	
IM02HC0N02	4'-5' FT	4/23/2010	
Location O			
IM02VR0O01	2'-3' FT	4/27/2010	*3
IM02HC0O02	7'-8' FT	4/27/2010	

SAMPLE LOCATIONS**FIGURE 1**

FILE NO. 4529.45863

JUNE 2010

WYETH HOLDINGS CORPORATION
BOUND BROOK
IMPOUNDMENTS 1 & 2
CHARACTERIZATION
PROGRAM

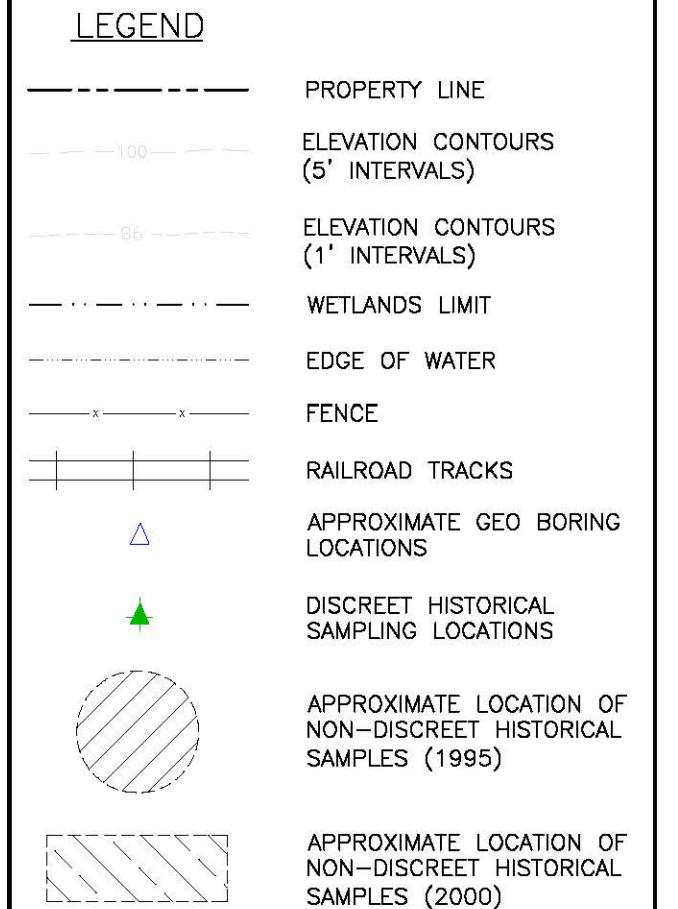


FIGURE 2

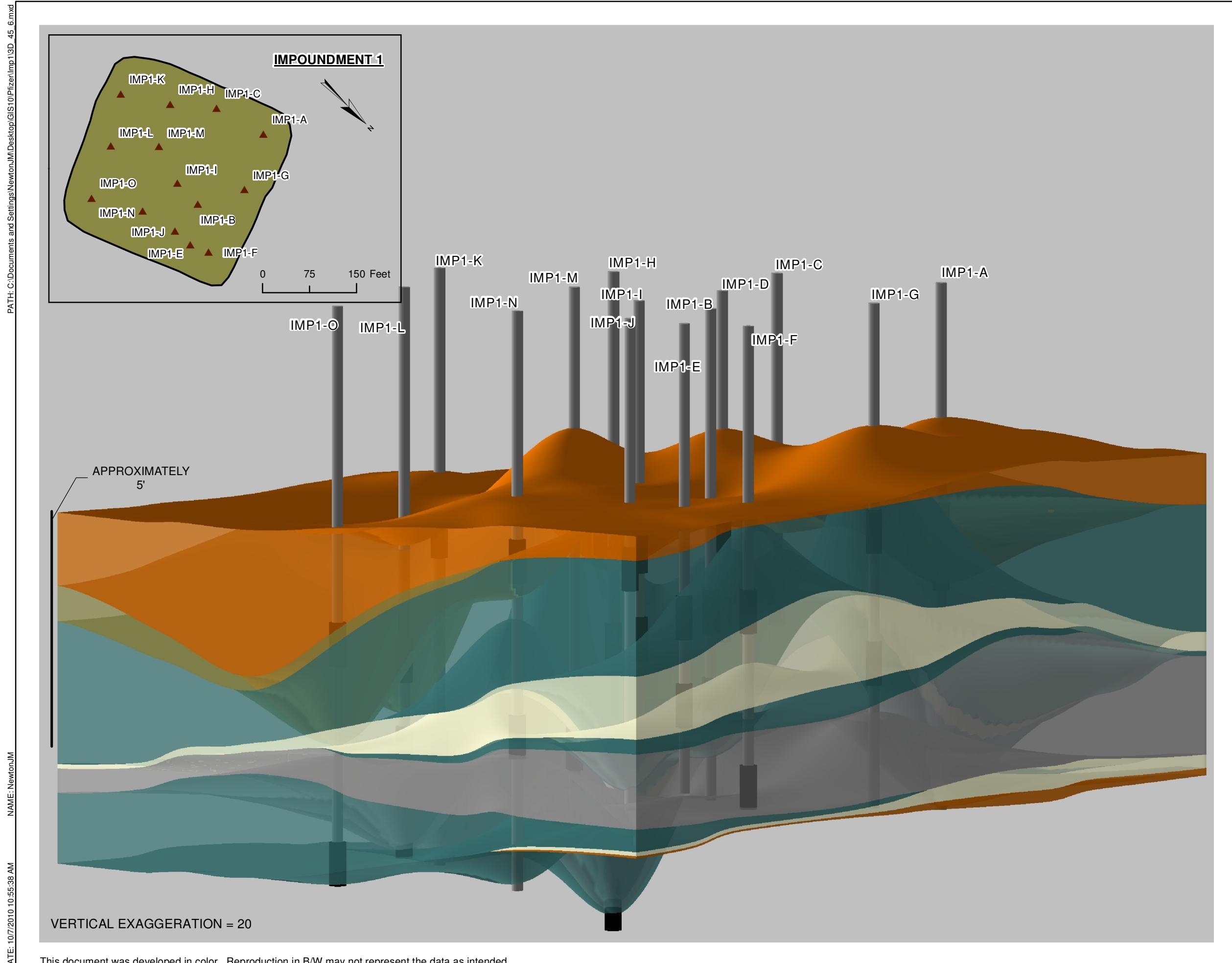


FIGURE 3

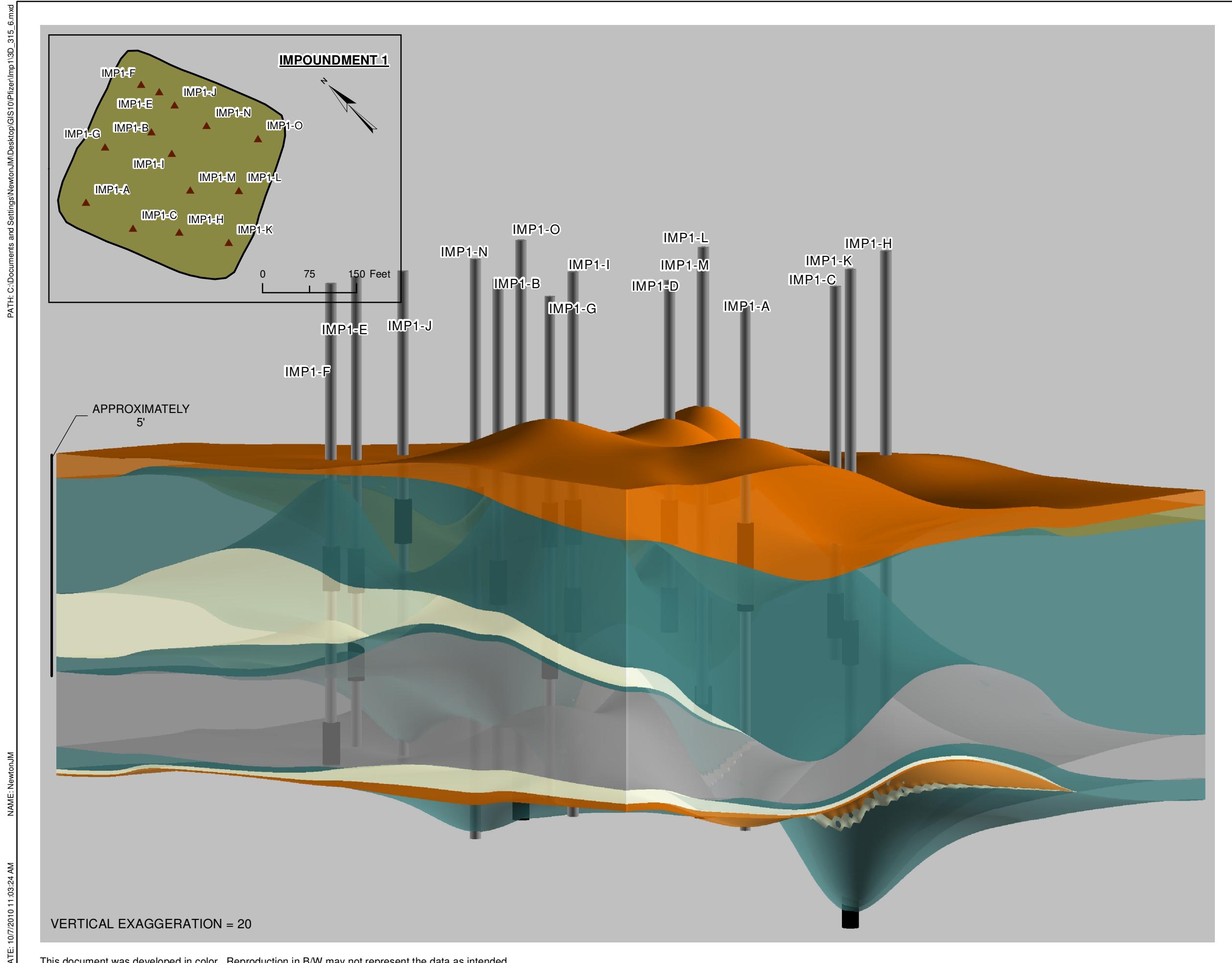
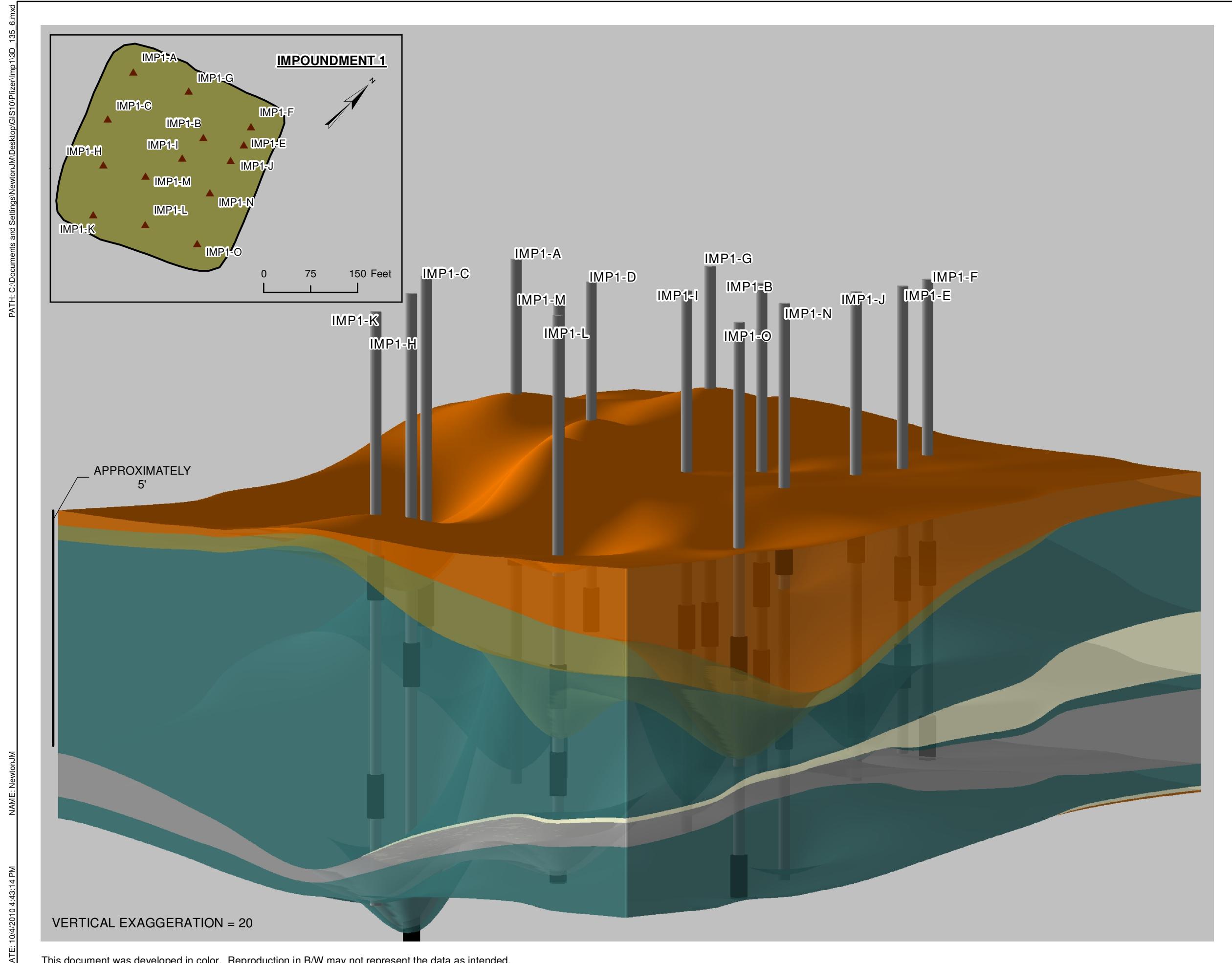


FIGURE 4



WYETH HOLDINGS
CORPORATION
BOUND BROOK, NEW JERSEY

**IMPOUNDMENT 1
SUBSURFACE MODEL
SOUTH EAST VIEW**

OCTOBER 2010
4529.45863

FIGURE 5

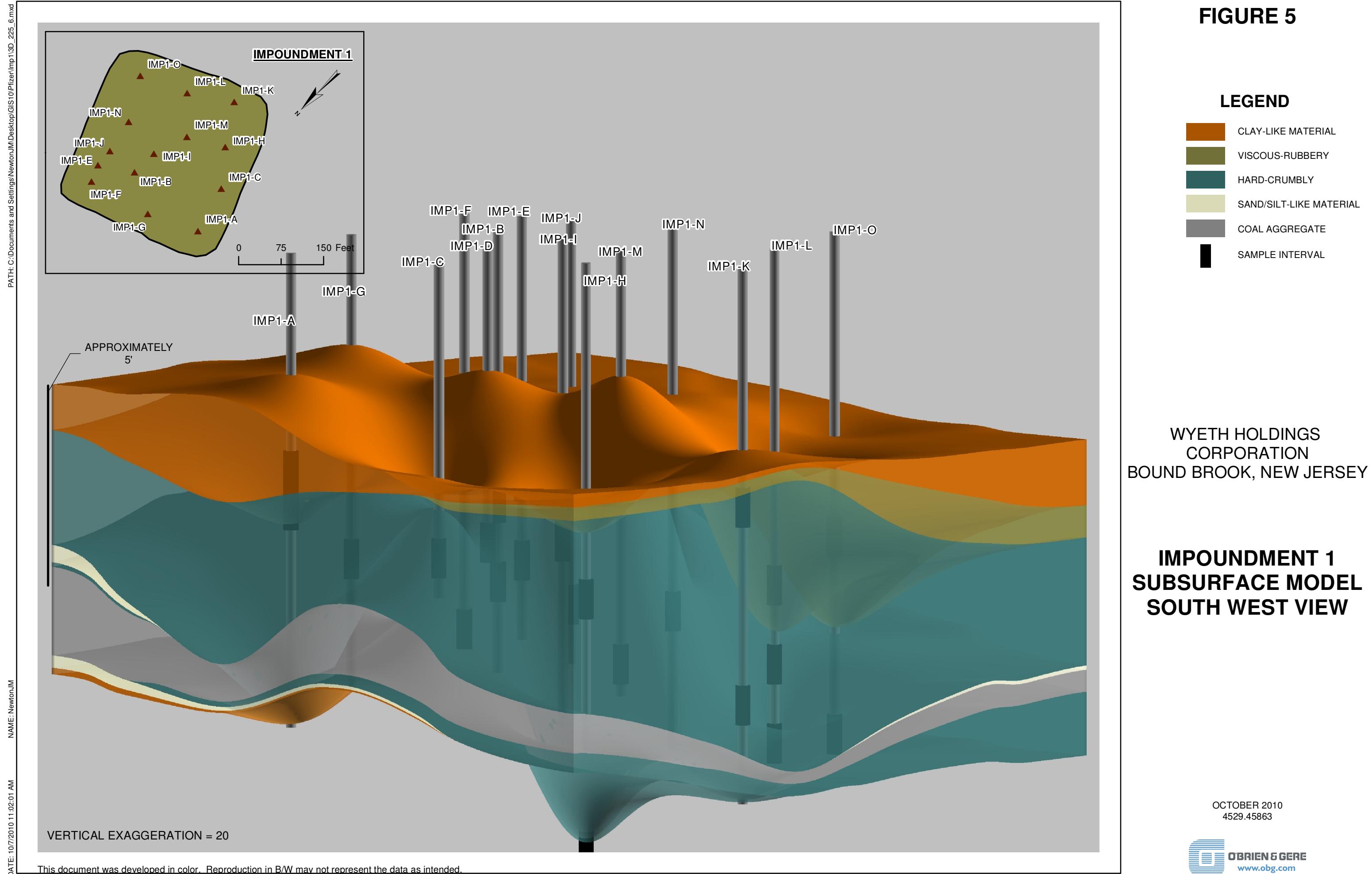


FIGURE 6

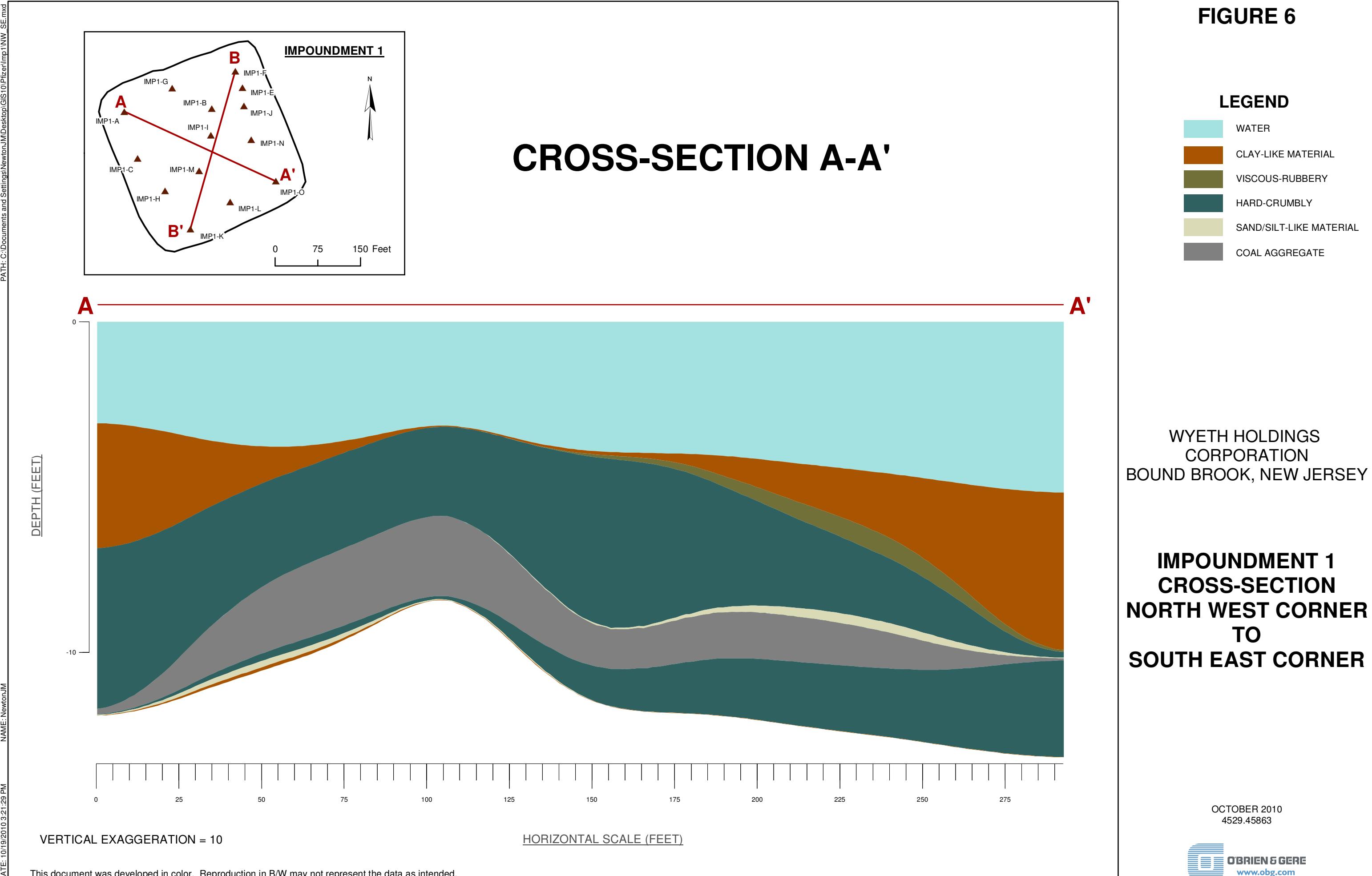
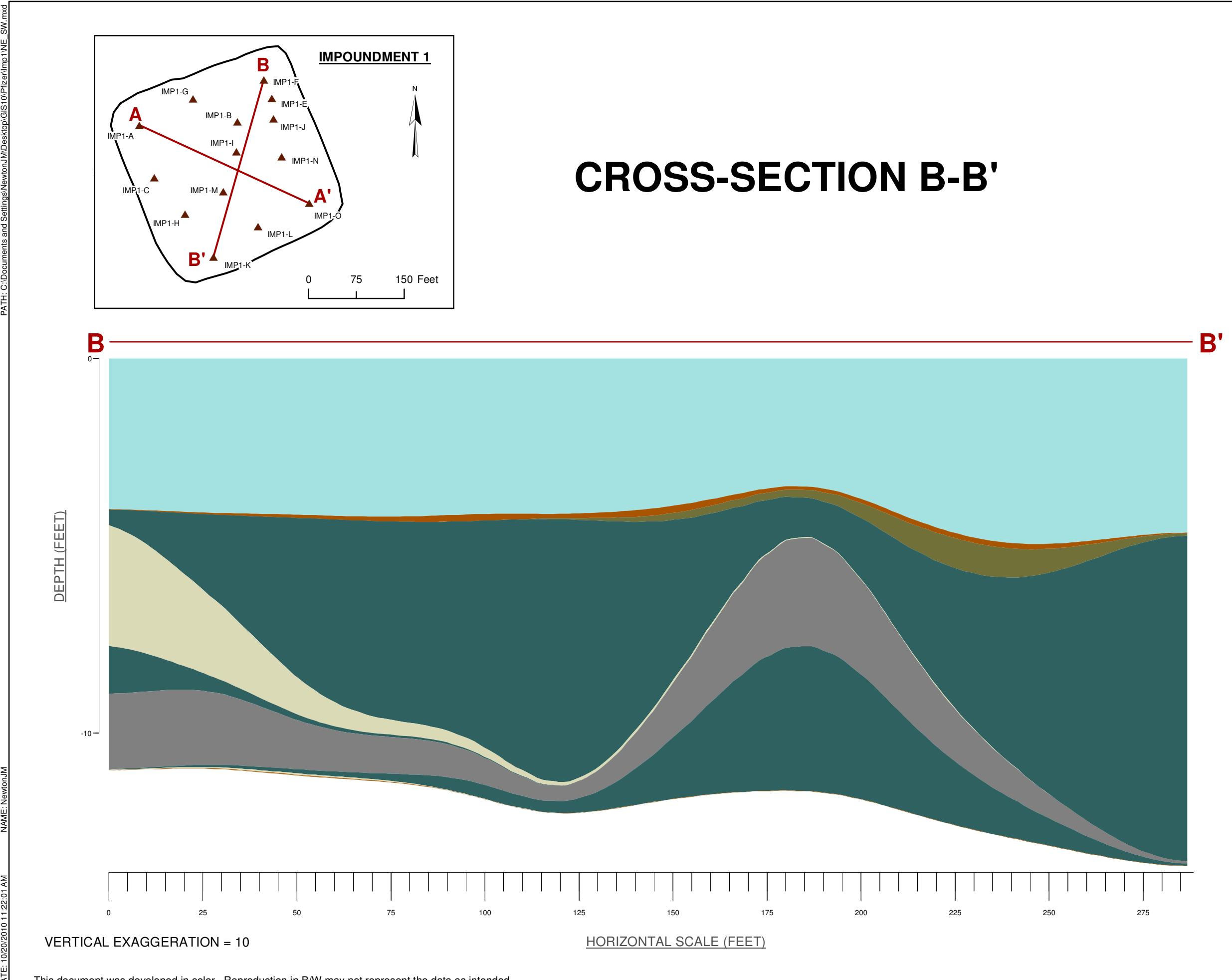
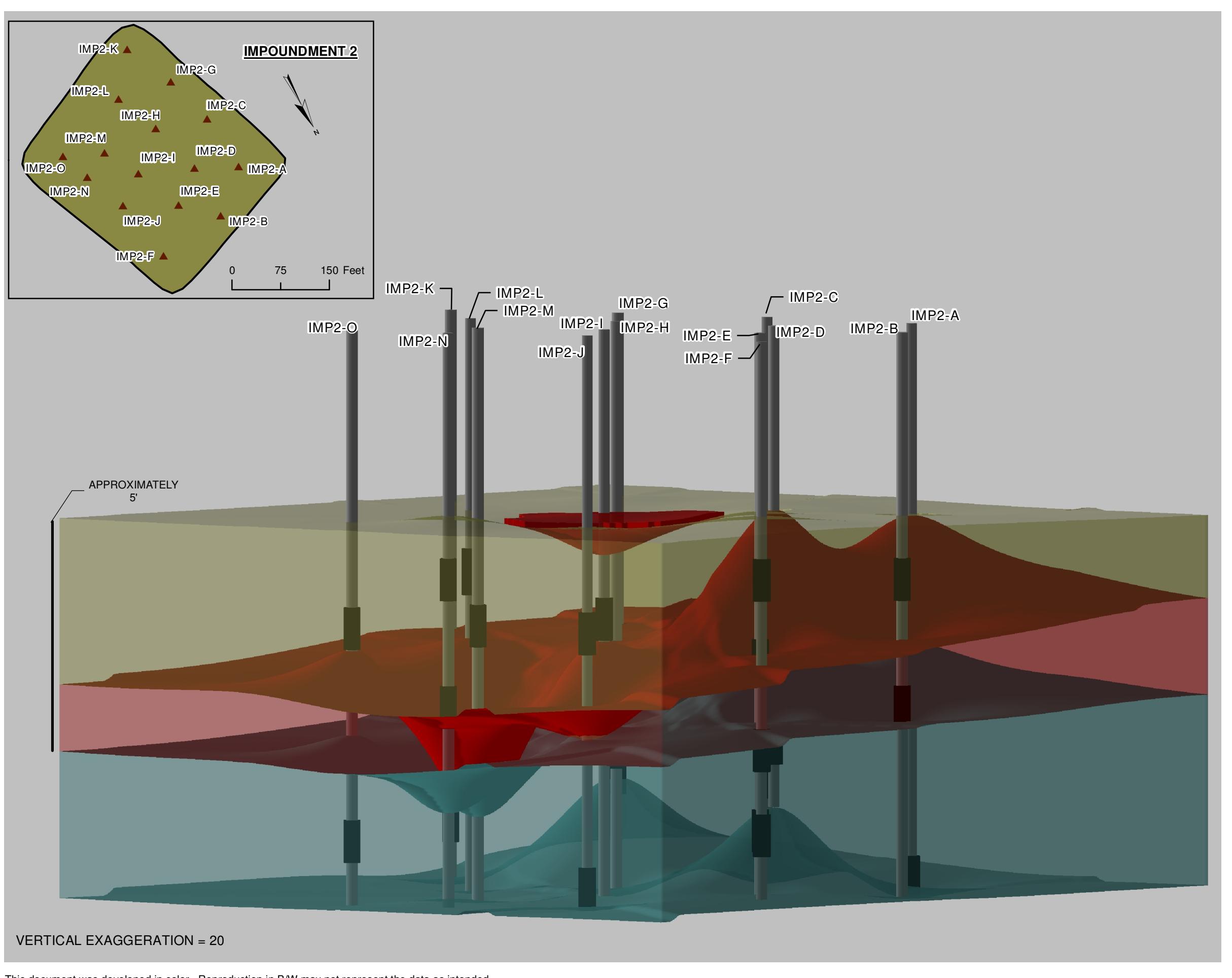


FIGURE 7



OCTOBER 2010
4529.45863

FIGURE 8



WYETH HOLDINGS
CORPORATION
BOUND BROOK, NEW JERSEY

**IMPOUNDMENT 2
SUBSURFACE MODEL
NORTH EAST VIEW**

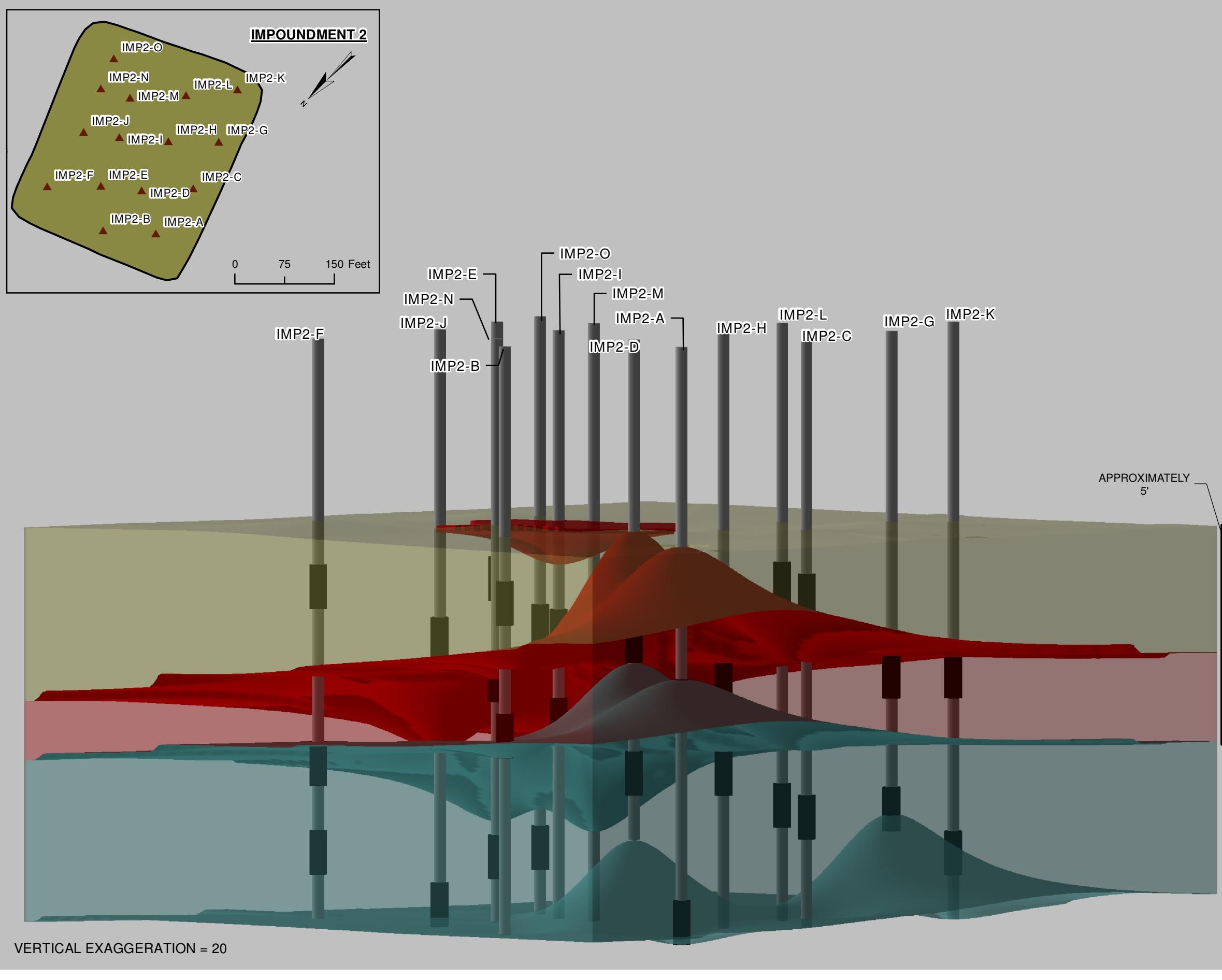
OCTOBER 2010
4529.45863

FIGURE 9

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DATE: 10/7/2010 11:11:04 AM



LEGEND

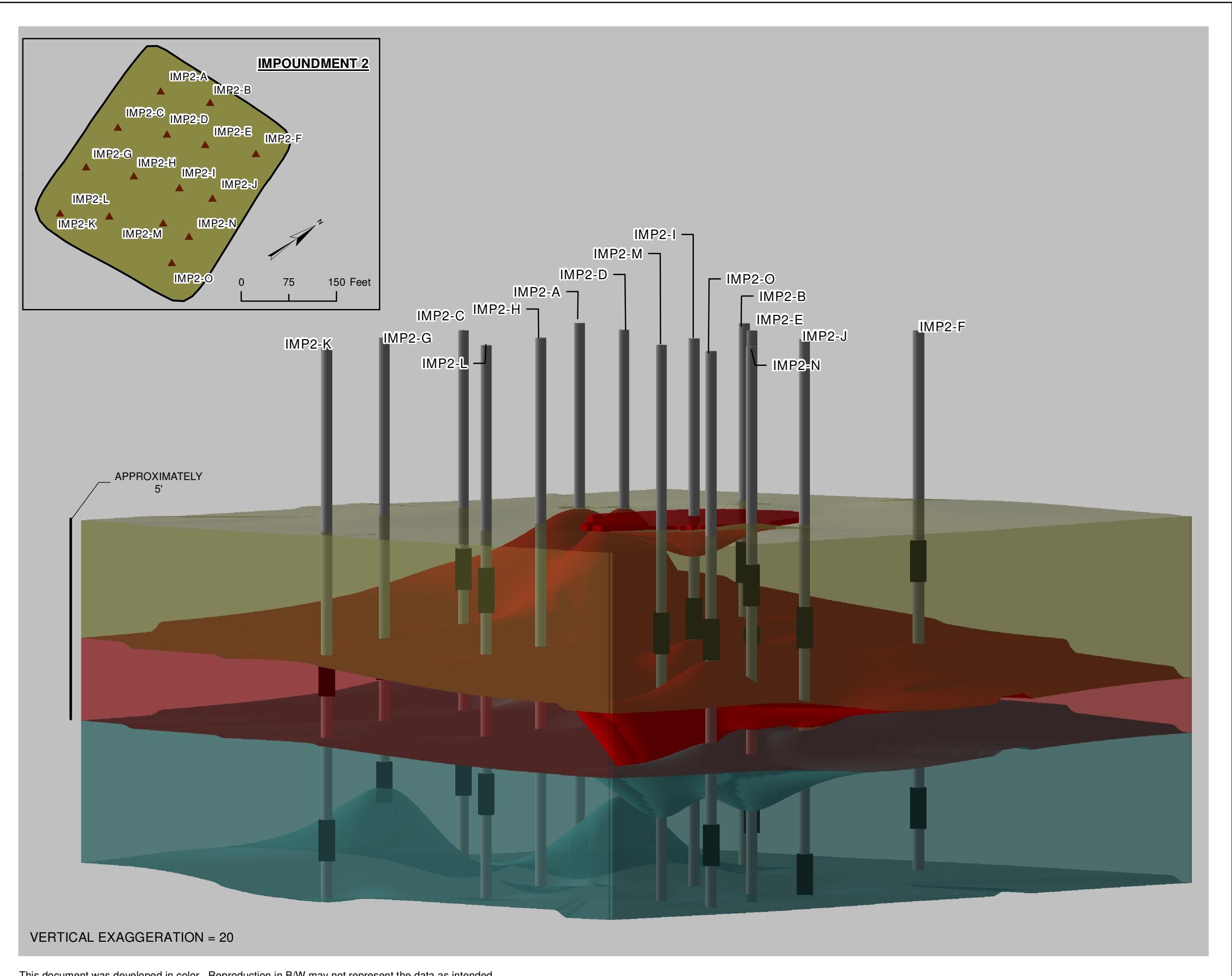
	WATER
	VISCOUS-RUBBERY/HARD-CRUMBLY MIX
	VISCOUS-RUBBERY
	HARD-CRUMBLY
	SAMPLE INTERVAL

WYETH HOLDINGS
CORPORATION
BOUND BROOK, NEW JERSEY

**IMPOUNDMENT 2
SUBSURFACE MODEL
NORTH WEST VIEW**

OCTOBER 2010
4529.45863

FIGURE 10



WYETH HOLDINGS
CORPORATION
BOUND BROOK, NEW JERSEY

**IMPOUNDMENT 2
SUBSURFACE MODEL
SOUTH EAST VIEW**

OCTOBER 2010
4529.45863

FIGURE 11

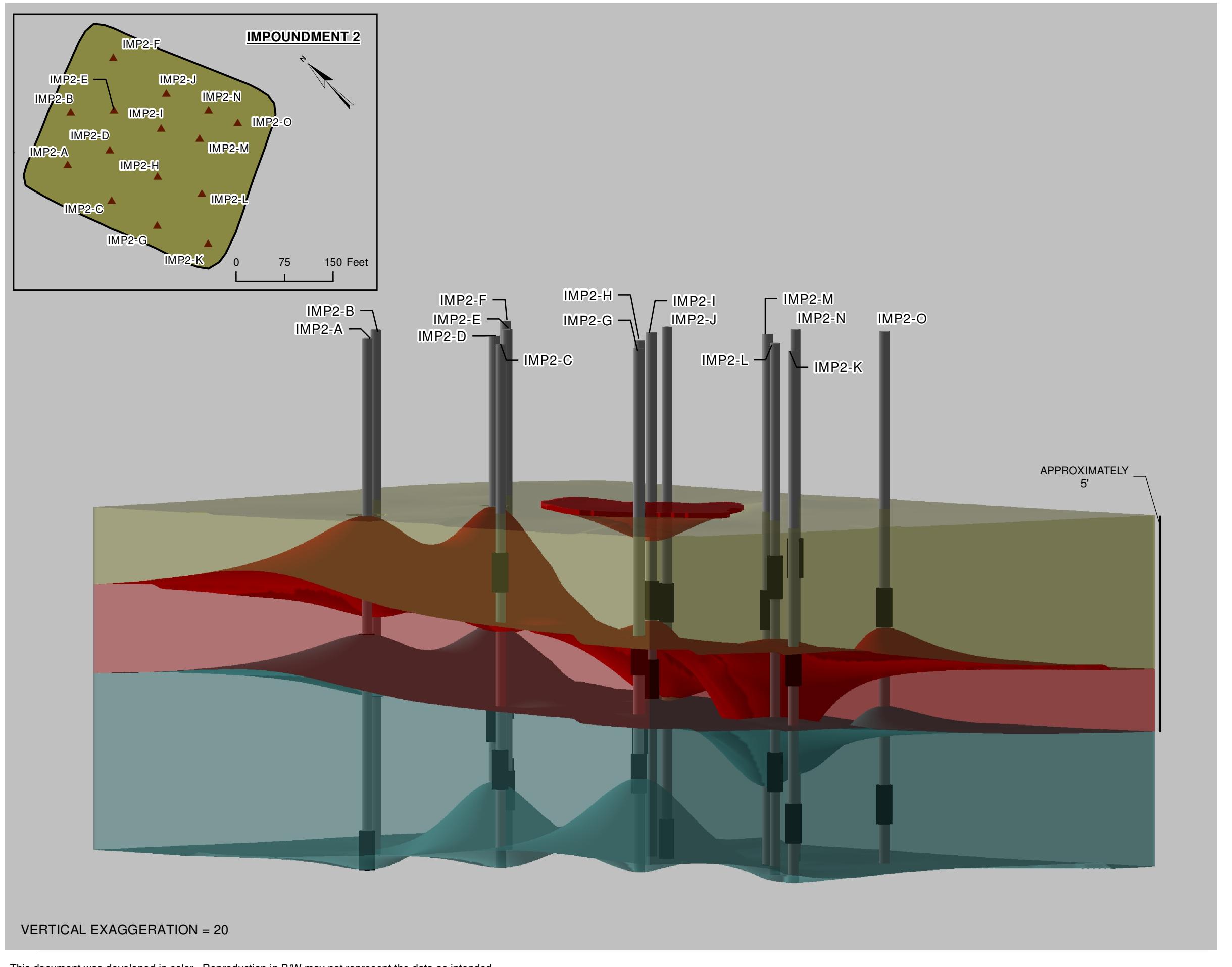
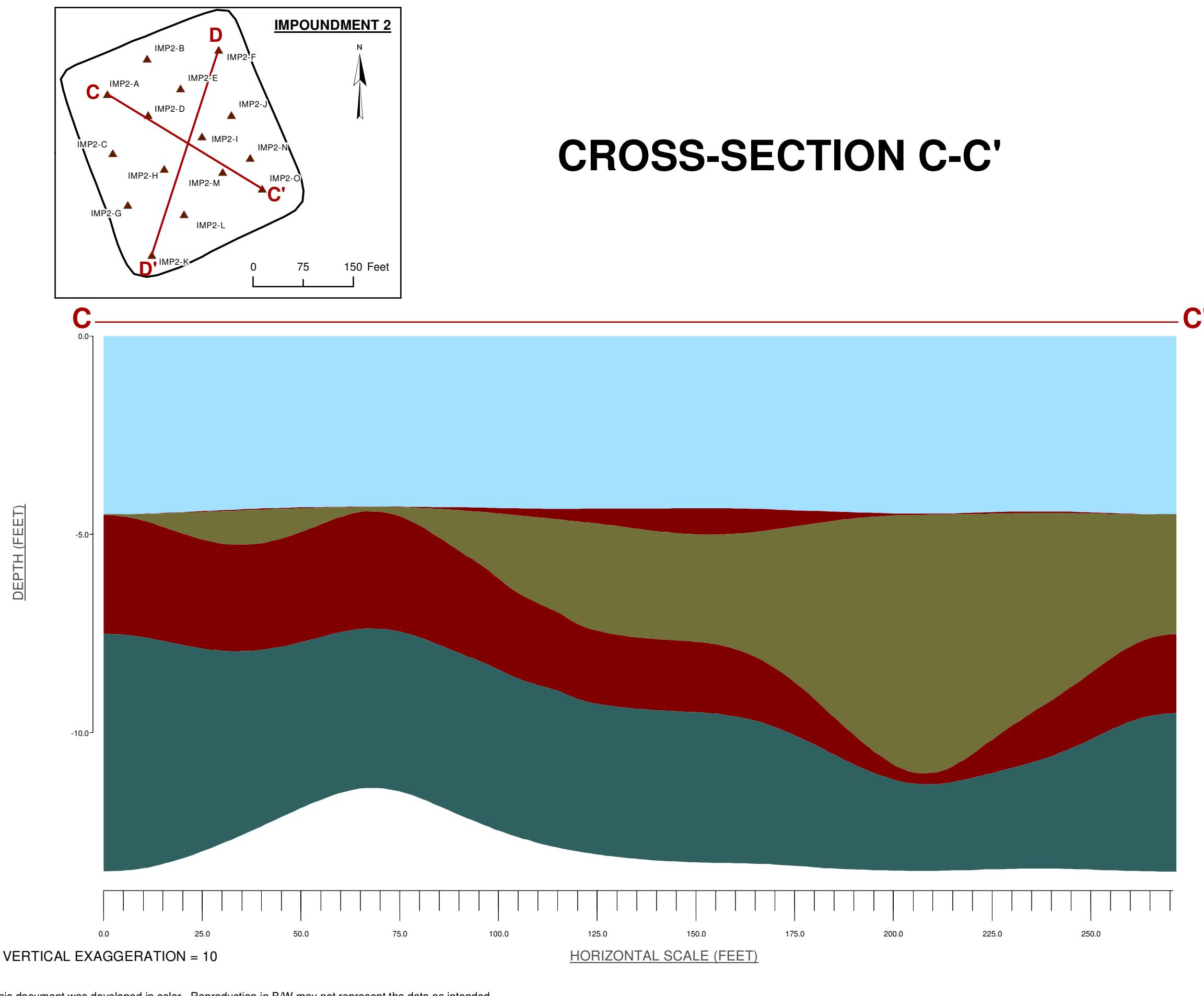


FIGURE 12



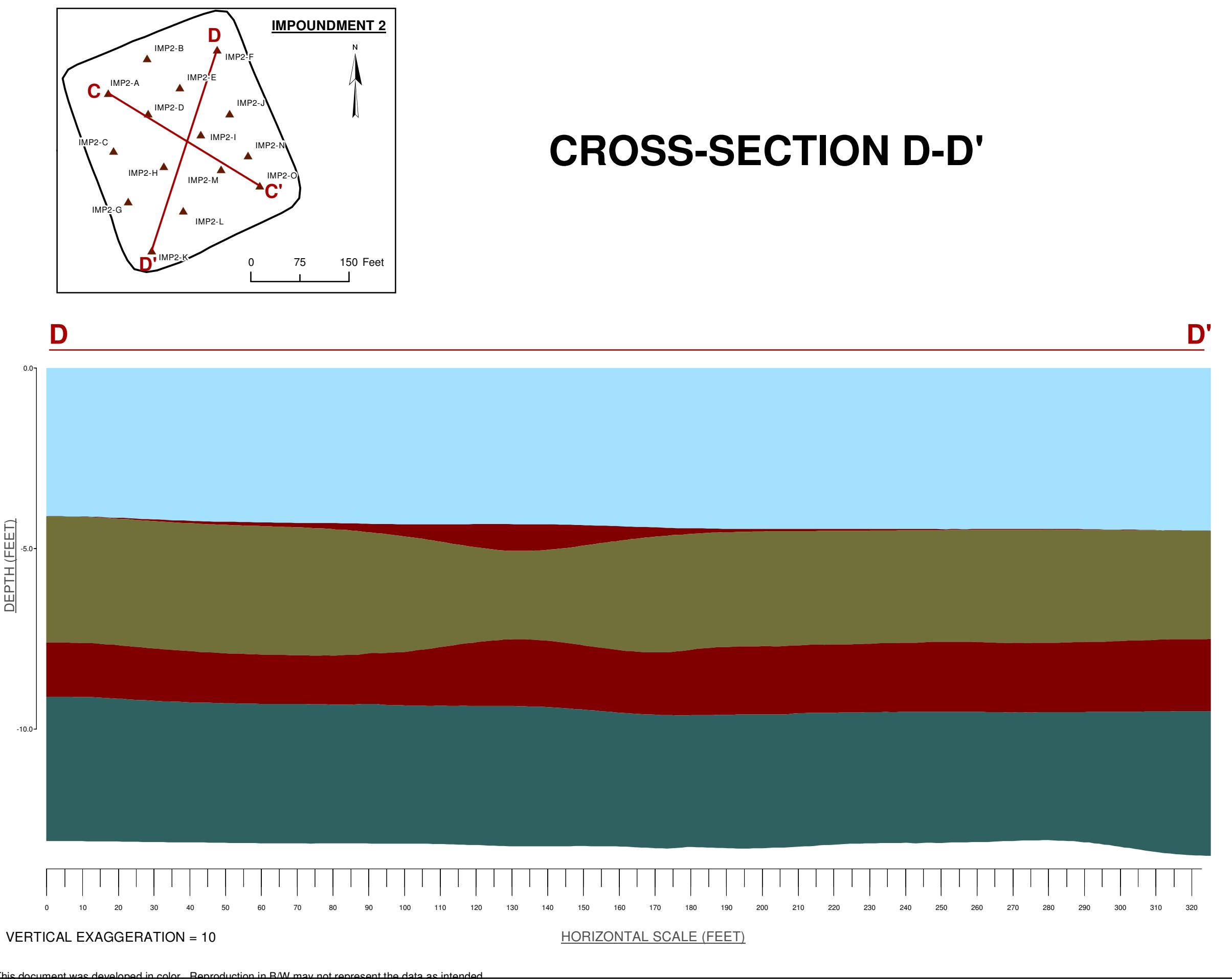
OCTOBER 2010
4529.45863

FIGURE 13

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NAME: NewtonM

DATE: 10/20/2010 12:53:42 PM



LEGEND

	WATER
	VISCOUS-RUBBER/HARD-CRUMBLY MIX
	VISCOUS-RUBBER
	HARD-CRUMBLY

WYETH HOLDINGS
CORPORATION
BOUND BROOK, NEW JERSEY

**IMPOUNDMENT 2
CROSS-SECTION
NORTH EAST CORNER
TO
SOUTH WEST CORNER**

OCTOBER 2010
4529.45863

Sample Location	R/G
Sample ID	IM01CA08_01_05032010
Sample Depth	2'-3'
Sample Date	5/3/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	36,000
1,3,5-Trimethylbenzene	10,100
1,3-Dichlorobenzene	392 J
1,4-Dichlorobenzene	1,300 J
Benzene	78,500
Chlorobenzene	233 J
Cyclohexane	1,100 J
Ethylbenzene	1,570
Isopropylbenzene	1,200
m,p-Xylene	17,600
Methyl Cyclohexane	5,090
o-Xylene	6,940
Toluene	36,400
Xylene (Total)	24,500
	23,700

Sample Location	A
Sample ID	IM01VR0A_01_04302010
Sample Depth	2' - 3'
Sample Date	4/30/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	9,940
1,3,5-Trimethylbenzene	5,240
1,3-Dichlorobenzene	153 J
1,4-Dichlorobenzene	489 J
Benzene	269,000
Carbon Disulfide	ND
Chlorobenzene	375 J
Ethylbenzene	1,480
Isopropylbenzene	9,940
m,p-Xylene	439 J
Methyl Cyclohexane	2,400
o-Xylene	4,060
Toluene	1,440
Xylene (Total)	4,500
	235,000

Sample Location	D
Sample ID	IM01VR0D_01_05052010
Sample Depth	2' - 3'
Sample Date	5/5/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	45,100
1,3,5-Trimethylbenzene	13,700 J, 39
1,3-Dichlorobenzene	975 J, 39
1,4-Dichlorobenzene	3,320 J, 39
Benzene	934,000
Chlorobenzene	1,330 J, 39
Ethylbenzene	5,490
Isopropylbenzene	21,700
m,p-Xylene	55,100
Methyl Cyclohexane	18,000
o-Xylene	55,000
Toluene	220,000
Xylene (Total)	71,100

Sample Location	C
Sample ID	IM01VR0C_01_04302010
Sample Depth	2' - 3'
Sample Date	4/30/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	412,000
1,3,5-Trimethylbenzene	171,000
1,4-Dichlorobenzene	23,600 J
Benzene	20,000,000
Carbon Disulfide	39,200 J
Ethylbenzene	72,900
Isopropylbenzene	203,000
m,p-Xylene	854,000
o-Xylene	244,000
Toluene	4,370,000
Xylene (Total)	1,100,000

Sample Location	M
Sample ID	IM01VR0M_01_05052010
Sample Depth	1' - 2'
Sample Date	5/5/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	3,390
1,3,5-Trimethylbenzene	2,300
1,4-Dichlorobenzene	197 J
Benzene	99,100
Carbon Disulfide	100 J
Cyclohexane	1,640
Ethylbenzene	1,300
Isopropylbenzene	6,580
m,p-Xylene	13,500
Methyl Cyclohexane	5,510
o-Xylene	4,490
Toluene	40,100
Xylene (Total)	18,000
	3,830,000

Sample Location	H
Sample ID	IM01VR0H_01_04302010
Sample Depth	1' - 2'
Sample Date	4/30/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	714,000
1,3,5-Trimethylbenzene	271,000
1,4-Dichlorobenzene	10,100 J
Benzene	18,000,000
Carbon Disulfide	30,500 J
Ethylbenzene	76,700
Isopropylbenzene	234,000
m,p-Xylene	965,000
o-Xylene	388,000
Toluene	4,000,000
Xylene (Total)	1,230,000

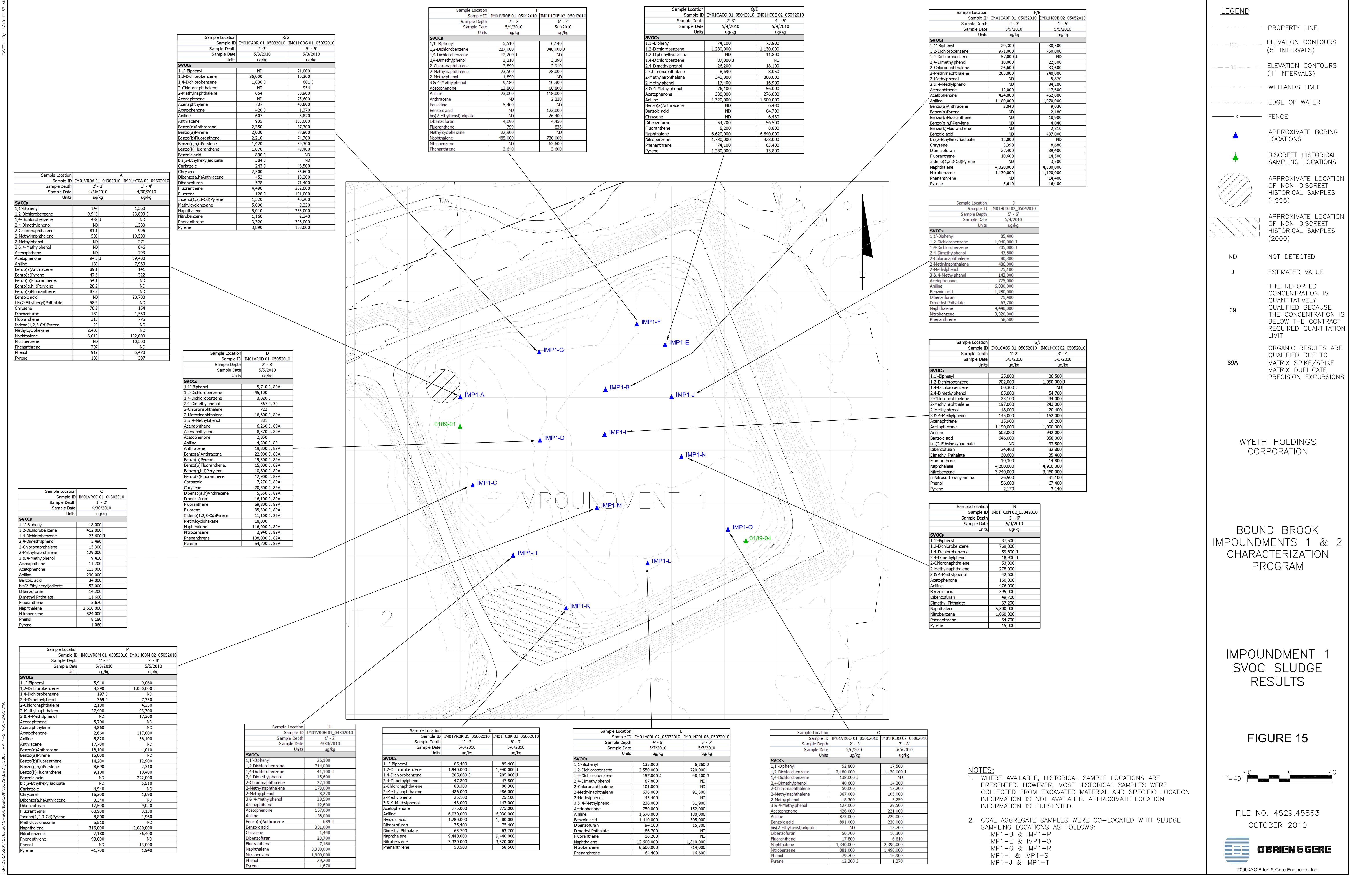
Sample Location	K
Sample ID	IM01VR0K_01_05062010
Sample Depth	1' - 2'
Sample Date	5/6/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	517,000
1,3,5-Trimethylbenzene	120,000 J
1,4-Dichlorobenzene	23,500 J
Benzene	13,500,000
Carbon Disulfide	24,000 J
Ethylbenzene	76,700
Isopropylbenzene	234,000
m,p-Xylene	965,000
o-Xylene	388,000
Toluene	4,000,000
Xylene (Total)	1,230,000

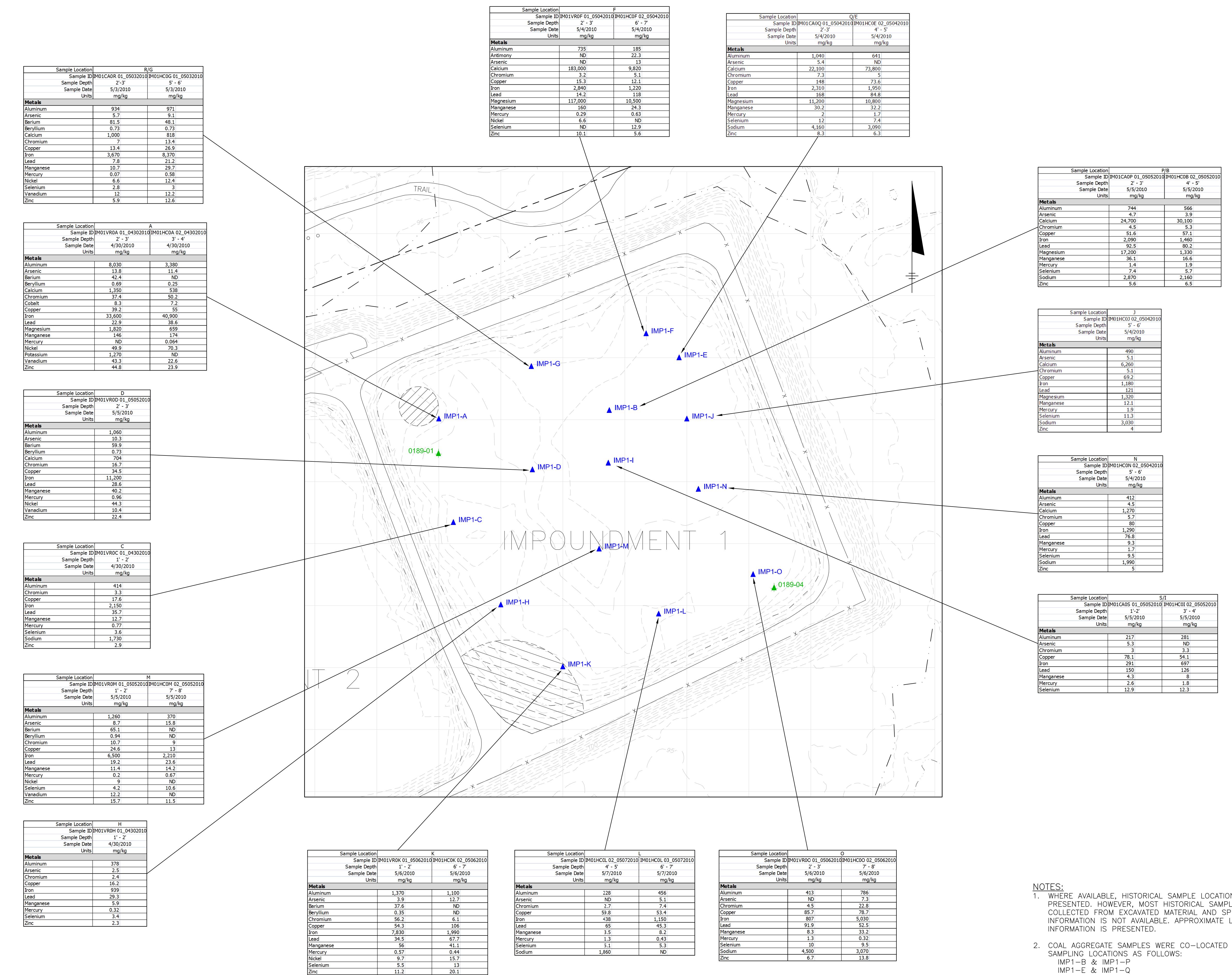
Sample Location	L
Sample ID	IM01HCOL_02_05072010
Sample Depth	1' - 2'
Sample Date	5/7/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	517,000
1,3,5-Trimethylbenzene	120,000 J
1,4-Dichlorobenzene	23,500 J
Benzene	13,500,000
Carbon Disulfide	24,000 J
Ethylbenzene	76,700
Isopropylbenzene	234,000
m,p-Xylene	965,000
o-Xylene	388,000
Toluene	3,290,000
Xylene (Total)	737,000
	2,000,000

Sample Location	S/I
Sample ID	IM01CA05_01_05052010
Sample Depth	1' - 2'
Sample Date	5/5/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	2,550,000
1,3,5-Trimethylbenzene	1,000,000
1,4-Dichlorobenzene	35,200 J
Benzene	13,500,000
Carbon Disulfide	46,100 J
Ethylbenzene	54,100,000
Isopropylbenzene	116,000 J
m,p-Xylene	184,000 J
o-Xylene	18,900 J
Toluene	6,810,000
Xylene (Total)	737,000
	3,000,000

Sample Location	S/I
Sample ID	IM01HCOI_02_05052010
Sample Depth	1' - 2'
Sample Date	5/5/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	702,000
1,3,5-Trimethylbenzene	37,000 J
1,4-Dichlorobenzene	60,000 J
Benzene	50,300,000
Carbon Disulfide	98,500 J
Ethylbenzene	249,000
Isopropylbenzene	529,000
m,p-Xylene	750,000
o-Xylene	2,740,000
Toluene	3,300,000
Xylene (Total)	3,430,000
	6,910,000

Sample Location	F
Sample ID	IM01VR0F_01_05042010
Sample Depth	2' - 3'
Sample Date	5/4/2010
Units	ug/kg
VOCs	
1,2-Dichlorobenzene	227,000
1,3,5-Trimethylbenzene	1,000 J
1,4-Dichlorobenzene	2,680 J
Benzene	12,200 J
Carbon Disulfide	1,860,000
Ethylbenzene	18,000
Isopropylbenzene	56,000
m,p-Xylene	287,000 J
Methyl Cyclohexane	22,900
o-Xylene	926,000
Toluene	670,000





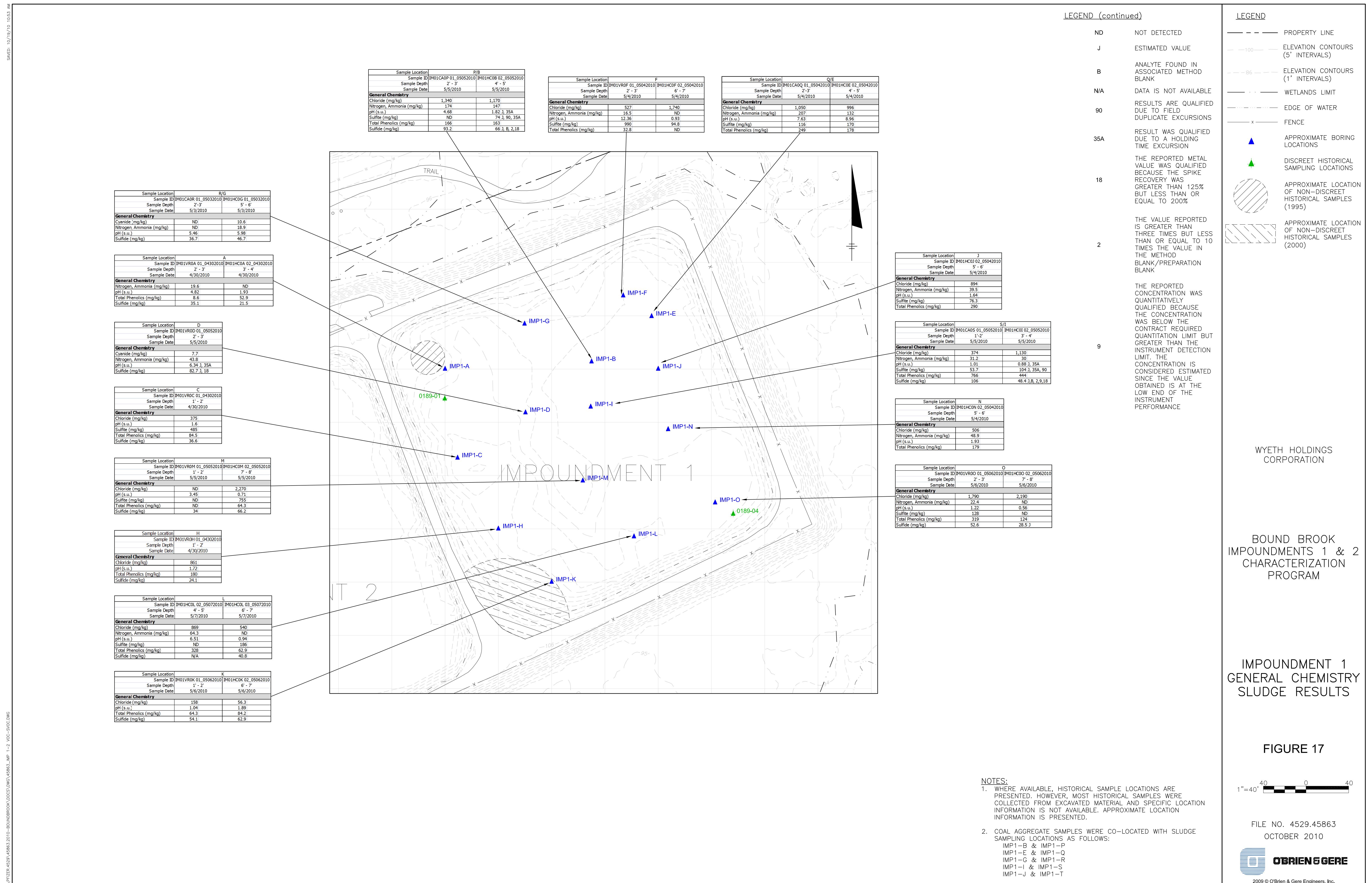
WYETH HOLDINGS CORPORATION

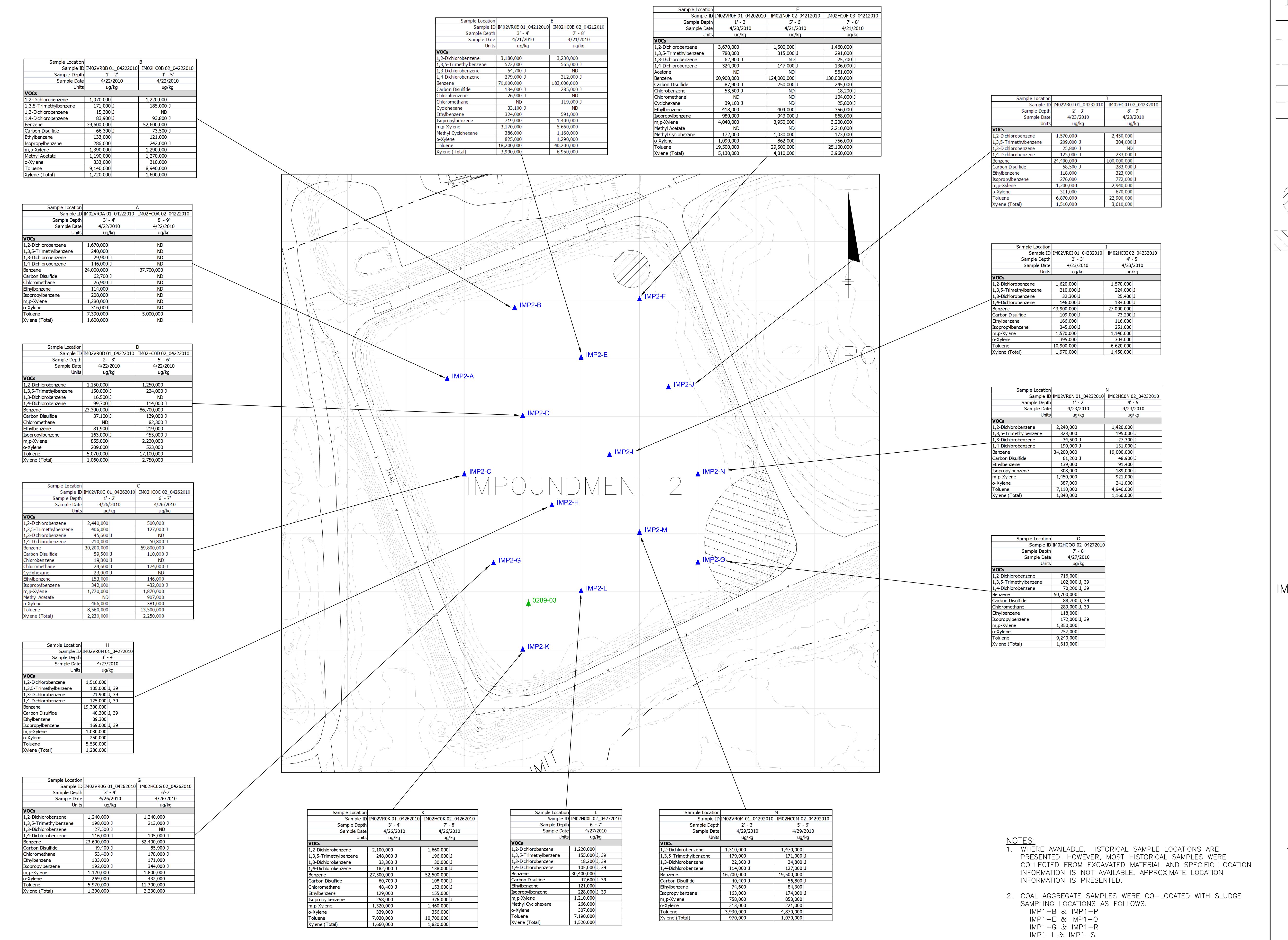
BOUNDBROOK
IMPOUNDMENTS 1 & 2
CHARACTERIZATION PROGRAM

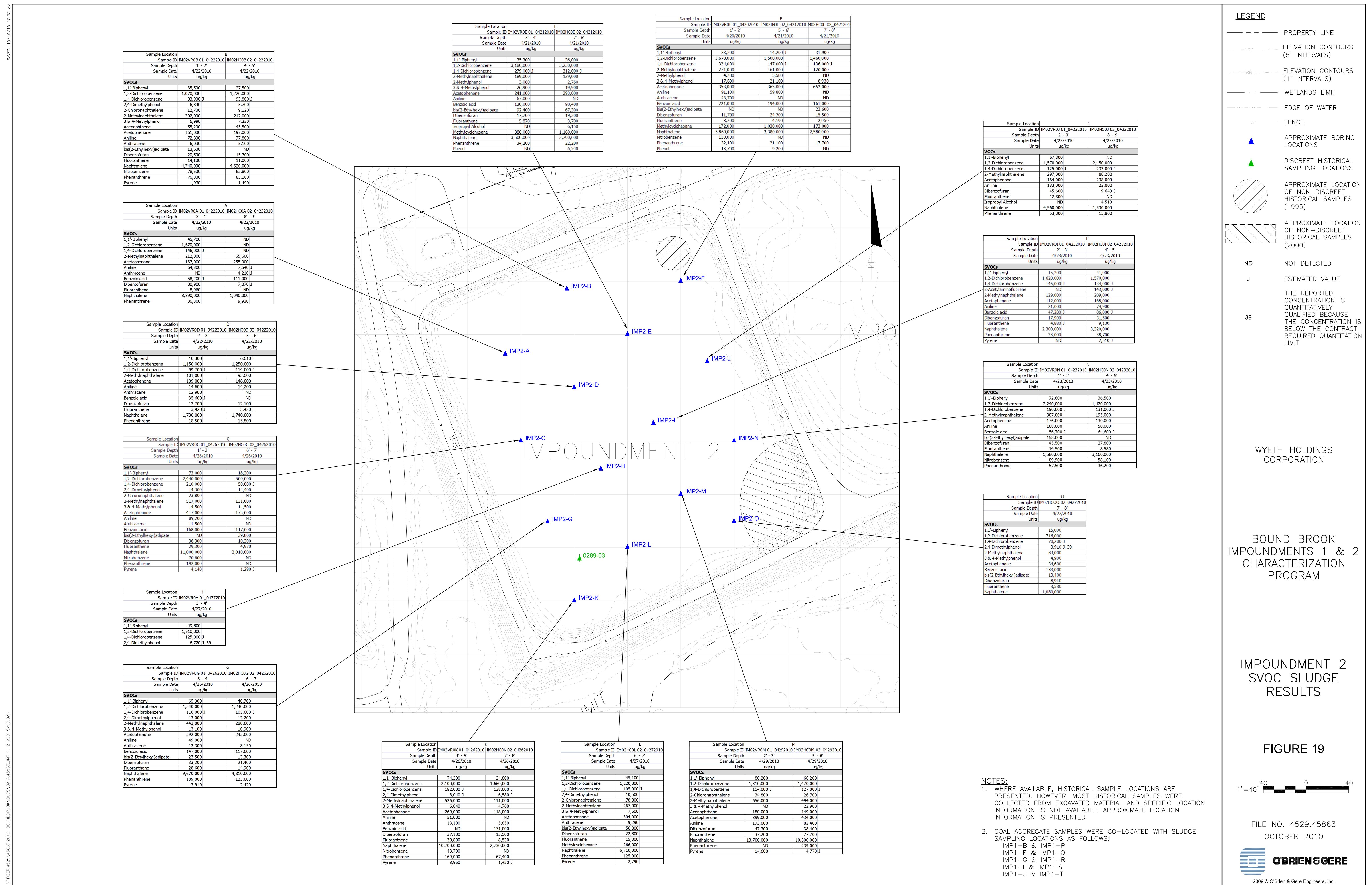
FIGURE 16

1"=40 40 0 40

FILE NO. 4529.45863<br







Sample Location		E	
Sample ID	IM02VR0E_01_04222010	IM02HC0E_02_04212010	
Sample Depth	3' - 4'	7' - 8'	
Sample Date	4/22/2010	4/21/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	213	256	
Arsenic	2.6	2.4	
Chromium	2.4	2.6	
Copper	65.5	104.4	
Iron	772	786	
Lead	59.5	67.2	
Manganese	6.8	6.3	
Mercury	0.082	0.081	
Selenium	6.1	5.5	
Sodium	3,540	11,400	
Zinc	2.6	3.4	

Sample Location		A	
Sample ID	IM02VR0A_01_04222010	IM02HC0A_02_04222010	
Sample Depth	3' - 4'	8' - 9'	
Sample Date	4/22/2010	4/22/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	167	80.6	
Arsenic	3.1	2.9	
Chromium	7.7	3.1	
Copper	27.8	6.1	
Iron	4,170	1,400	
Lead	62.2	9	
Manganese	19.3	7.5	
Mercury	0.077	0.07	
Nickel	9.9	ND	
Selenium	5.4	2.1	
Sodium	2,680	4,700	
Zinc	3.5	ND	

Sample Location		D	
Sample ID	IM02VR0D_01_04222010	IM02HC0D_02_04222010	
Sample Depth	2' - 3'	5' - 6'	
Sample Date	4/22/2010	4/22/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	219	65.4	
Arsenic	2.7	3.1	
Chromium	3	5	
Copper	14.1	11.5	
Iron	903	831	
Lead	235	71.5	
Manganese	6.7	5.5	
Mercury	0.13	0.11	
Selenium	5.8	7	
Sodium	5,810	2,170	
Zinc	2.6	ND	

Sample Location		C	
Sample ID	IM02VR0C_01_04262010	IM02HC0C_02_04262010	
Sample Depth	6'	6' - 7'	
Sample Date	4/26/2010	4/26/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	159	286	
Arsenic	2.7	ND	
Chromium	1.4	5.2	
Copper	11.0	10.0	
Iron	544	1,210	
Lead	81.8	84.4	
Manganese	4.4	7.4	
Mercury	0.1	0.19	
Nickel	ND	6.4	
Selenium	6	4.7	
Sodium	2,720	4,420	

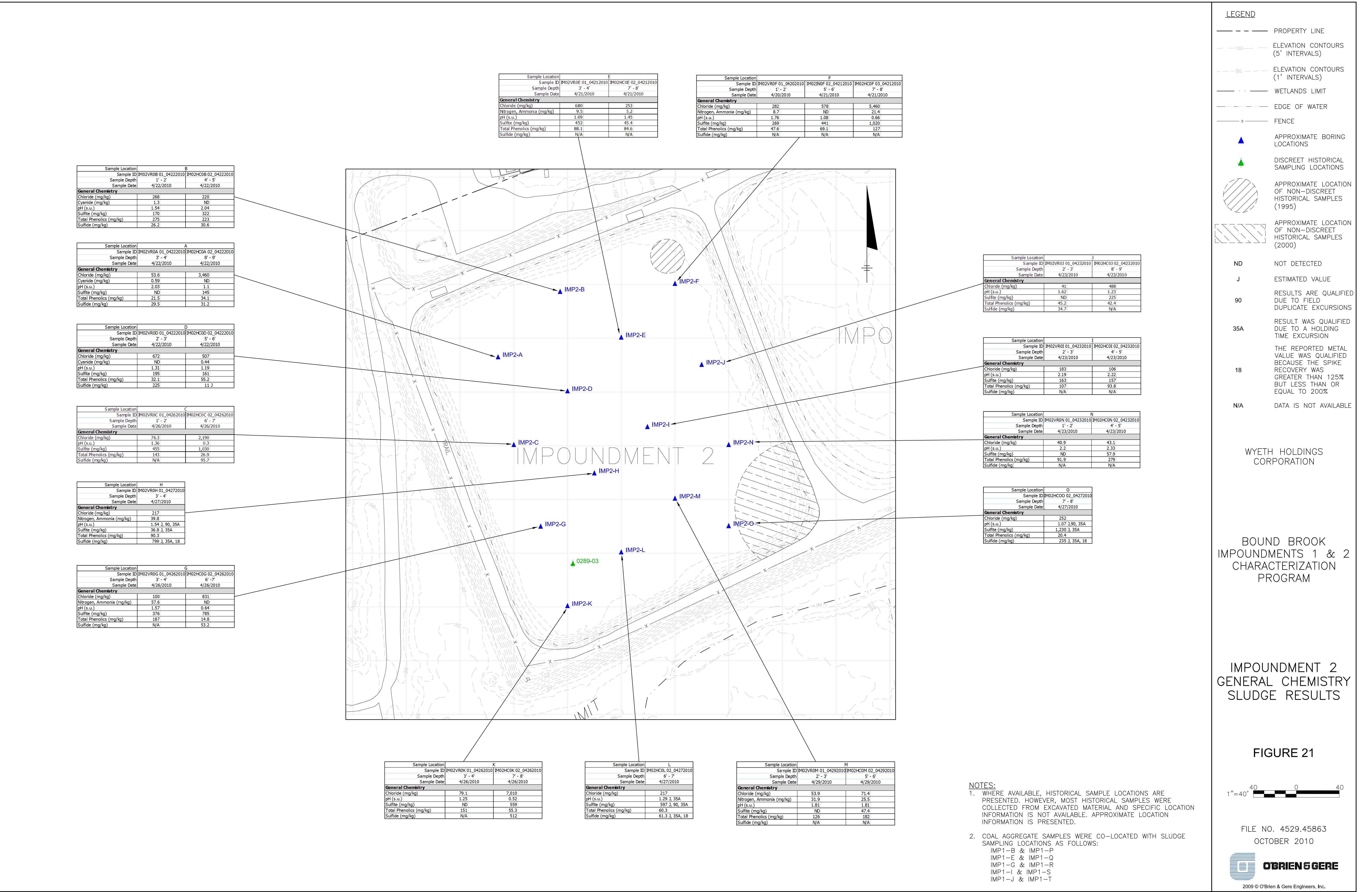
Sample Location		H	
Sample ID	IM02VR0H_01_04272010	IM02HC0H_02_04272010	
Sample Depth	3' - 4'	4' - 5'	
Sample Date	4/27/2010	4/27/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	208	870	
Arsenic	3.3	ND	
Chromium	2.3	ND	
Copper	18.7	ND	
Iron	363	5	
Lead	24.1	ND	
Manganese	11.1	ND	
Mercury	0.3	ND	
Nickel	4	ND	
Selenium	4.8	ND	
Sodium	1,740	1,770	
Zinc	3.7	ND	

Sample Location		G	
Sample ID	IM02VR0G_01_04262010	IM02HC0G_02_04262010	
Sample Depth	3' - 4'	6' - 7'	
Sample Date	4/26/2010	4/26/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	186	870	
Arsenic	2.7	2.5	
Chromium	3.2	8.1	
Copper	12.6	16.6	
Iron	644	1,030	
Lead	92.2	73.2	
Manganese	5	8.1	
Mercury	0.58	0.43	
Nickel	ND	4.7	
Selenium	6.8	6.3	
Sodium	2,950	1,770	
Zinc	ND	2.2	

Sample Location		K	
Sample ID	IM02VR0K_01_04262010	IM02HC0K_02_04262010	
Sample Depth	3' - 4'	6' - 7'	
Sample Date	4/26/2010	4/26/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	155	166	
Arsenic	2.4	3.9	
Chromium	3.2	8.5	
Copper	13.0	8.7	
Iron	586	798	
Lead	30.7	37.5	
Manganese	5.2	6.5	
Mercury	0.79	0.49	
Nickel	ND	4.6	
Selenium	4.7	7.1	
Sodium	2,160	2,920	
Zinc	ND	2.7	

Sample Location		L	
Sample ID	IM02VR0L_01_04262010	IM02HC0L_02_04262010	
Sample Depth	4' - 5'	6' - 7'	
Sample Date	4/26/2010	4/26/2010	
Units	mg/kg	mg/kg	
Metals			
Aluminum	59.5	130	
Arsenic	3.6	4.7	
Chromium	1.2	1	
Copper	4.9	12.2	
Iron	253	380	
Lead	27.1	35.1	
Manganese	2.6	3.4	
Mercury	0.25	0.26	
Selenium	5.6	6	
Sodium	2,010	2,240	

Sample Location			



Appendices

Appendix A -Scope of Work

To: Russ Downey
From: Angelo Caracciolo/Jony Laplante
Re: Impoundments 1 and 2 Sampling Work Plan
File: 5772/45539 Task 6
Date: March 10, 2010

cc: Steve Roland, OBG
Maureen Hoke, OBG
John Mnych, OBG
Catherine Kinrade, OBG
Vince d'Aco, Pfizer

Per our discussions on January 20, 2010, this work plan presents the proposed characterization sampling at Impoundments 1 and 2. These impoundments were originally included in the Comprehensive Site-wide Feasibility Study submitted to USEPA in May 2007, but have been identified as requiring further evaluation to identify the appropriate remedy through the performance of a Focused Feasibility Study (FFS).

The FFS will include the evaluation of each remedial alternative with respect to technical feasibility, cost, schedule, and potential for impact to the surrounding community and the environment. However, existing characterization data for the impoundments is limited with respect to contaminant concentrations and their potential to impact the remedy selection process. Notably, the potential for these compounds to volatilize during remedy implementation will need to be considered, as potential air emissions will impact the technical feasibility of the alternatives and the ability to comply with Applicable or Relevant and Appropriate Requirements (ARARs) such as the New Jersey Department of Environmental Protection's air permitting requirements. A limited data set (7 samples for 40,000 CY), elevated detection limits masking potential risk drivers in historical data, and a lack of data regarding compounds such as 1,3-butadiene and benzyl chloride (which have been detected within air samples from other impoundment material) may significantly impact risk evaluations related to each potential remedy and the ability to obtain an air permit for the selected remedy.

The agencies' decision to separate Impoundments 1 and 2 from the Comprehensive Site-wide Feasibility Study provides the opportunity to collect the data necessary to better evaluate the feasibility and constructability of the proposed remedial alternatives. Additionally, this data will provide the basis for the development of the work plan for additional studies in support of the FFS.

1. Impoundment Background Information and Current Status

Impoundment 1 has a surface area of approximately 2.1 acres. It was constructed in 1956 and used until 1965 for the storage of waste from a coal oil refining process. Between 1966 and 1967, the top layer of Impoundment 1, consisting of a light oily sludge (LOS) material, was removed, leaving only the underlying viscous layers. The remaining material in Impoundment 1 forms two distinct layers: an upper viscous, rubbery (VR) tar layer and a lower layer of hard crumbly (HC) tar. Impoundment 1 contains approximately 6500 CY of the VR layer at an estimated depth of 0 to 3 feet and approximately 13,000 CY of the HC layer at an estimated depth of 3 to 8 feet. In the 1980s, coal aggregate was deposited into Impoundment 1 to facilitate the excavation of material for an offsite fuel blending program. This program was unsuccessful, and coal deposits remain in the impoundment. Impoundment 1 is covered with a synthetic liner and water cover for odor control. The pH of Impoundment 1 material is less than 1 Standard Unit (SU). The predominant compounds of concern (COCs) identified to date at Impoundment 1 include benzene, toluene, xylene, 1,2-dichlorobenzene, naphthalene, nitrobenzene, arsenic, barium, chromium, copper, lead, mercury, nickel, selenium, silver and zinc, based on 7 historical samples. Historical sample locations for discreet samples are shown on Figure 1.

Impoundment 2 has a surface area of approximately 2.3 acres. Impoundment 2 was constructed in 1947 and was used until 1956 for the storage of sludge from a coal oil refining process. Between 1986 and 1987, the top layer of Impoundment 2, consisting of LOS, was removed, leaving the more viscous underlying viscous layers. The remaining material in Impoundment 2 forms two distinct layers: an upper VR tar layer and a lower layer of HC tar. Impoundment 2 contains approximately 12,000 CY of the VR layer at an estimated depth of 0 to 4 feet and

approximately 12,000 CY of the HC layer at an estimated depth of 4 to 9 feet. A water cover is maintained over Impoundment 2 for odor control. The pH of Impoundment 2 is less than 1 SU; the pH of the water cap has ranged between 2.3 S.U. (under undisturbed conditions) to 0.1 S.U. (during HC layer excavation activities). The predominant COCs identified to date at Impoundment 2 include benzene, toluene, 1,2-dichlorobenzene, naphthalene, chromium, copper, lead, mercury, nickel, selenium and zinc, based on 9 historical samples. Historical sample locations for discreet samples are shown on Figure 1.

2. Data Quality Objectives (DQOs)/Goals

The purpose of the characterization sampling is as follows:

1. Generate a statistically-valid database of samples from Impoundments 1 and 2 that allows for more thorough characterization of impoundment material and identification of potential COCs, including:
 - a. Compounds that may be present at relatively low concentrations and have been masked by dilution effects during previous sampling events, and
 - b. Compounds that may result from degradation of previously-identified COCs or of compounds likely to be present based on the nature and source of the impoundment material.
2. Compare chemical composition and physical characteristics of the HC and VR materials to understand whether differences between the two materials include differences in chemical composition or only in physical properties, and whether the differences in physical properties are related to the physical setting. Differences in the layers may require application of different remedial alternatives, or adjustment in the implementation of these remedial alternatives; for instance, should in-place containment (IPC) of the impoundment material be identified as a remedial alternative, each layer may require different formulation of additives to achieve solidification and containment.
3. Perform an initial characterization of potential air-phase COCs from both impoundment materials and the existing water cap to identify the potential presence of:
 - a. COCs that may impact air permitting and risk evaluation considerations during the screening of remedial alternatives, and
 - b. Odorous COCs that may impact implementability of remedial alternatives due to the potential for offsite odor impacts.
4. Evaluate chemical composition, pH, and buffering capacity of the water cap currently present on the impoundments in anticipation of onsite treatment and offsite disposal of water from the cap as part of the selected remedial alternative.
5. Perform preliminary vane shear testing and bearing capacity to evaluate the ability of impoundment material to accommodate loads associated with construction equipment during implementation of the selected remedial alternative.

3. Number of Samples and Basis

With respect to DQOs #1 and #2 above, the size of the sample set was based in part on guidance developed by USEPA Technical Support Center for Monitoring and Site Characterization as part of their ProUCL Statistical Software package. This guidance identifies the minimum number of samples that can be used to establish the appropriate distribution of the data set (normal, lognormal, or gamma) and to identify standard data set properties such as standard deviation and upper confidence limits (UCLs) of the mean. Based on review of this documentation, a minimum of 8 to 10 samples must be collected for each type of material in order for these

properties to be calculated; collection of additional samples is advisable when a sample population is likely to have a non-normal distribution or if there is expected to be a large amount of variation within the sample set. In general, environmental data is more likely to adhere to a gamma distribution than a normal distribution, and the samples collected to date at the impoundment indicate the potential for wide variation in COC concentrations.

Based on this rationale, a total of 15 samples are proposed to be taken from each impoundment/type of material as follows:

- Impoundment 1, VR material (15 samples)
- Impoundment 1, HC material (15 samples)
- Impoundment 2, VR material (15 samples)
- Impoundment 2, HC material (15 samples)

In addition, 4 samples will be collected from the VR/HC interface at each impoundment.

To evaluate potential air emissions as part of DQO #3, approximately 3-5 gallons of each type of impoundment material (VR and HC from each impoundment) and of the water cap will be collected for air shaker testing (as described further below). As the air testing proposed is designed to provide initial characterization only, impoundment material samples collected will not be specific to locations or intervals. Two sets of air samples will be collected from each impoundment/type of material as follows:

- Impoundment 1, VR material (2 samples)
- Impoundment 1, HC material (2 samples)
- Impoundment 2, VR material (2 samples)
- Impoundment 2, HC material (2 samples)
- Impoundment 1, water cap (2 samples)
- Impoundment 2, water cap (2 samples)

An additional 3-5 gallons of water will be collected from the water cap present on the impoundments for testing of the pH and buffering capacity of the water cap (DQO #4). Samples will also be collected from the water cap of each impoundment for evaluation of the chemical composition.

To evaluate DQO #5, vane shear testing will be performed in the field in-situ, if possible, or by collection of an undisturbed sample for ex-situ evaluation. Bearing capacity will be evaluated by the collection of an undisturbed sample by Shelby tube or vibracore. The undisturbed sample will be shipped to a geotechnical laboratory for evaluation of parameters that are used to calculate bearing capacity. Should material characteristics prevent the collection of an undisturbed sample, a material sample will be collected for shipment to a geotechnical laboratory where in-situ conditions will be simulated to perform the appropriate tests. If feasible (dependent upon field observations), samples may be collected from the underlying clay layer for additional geotechnical testing. Additional impoundment material will also be collected; this material will be set aside on site should additional sampling or material testing be subsequently identified.

4. Proposed Sample Locations and Intervals

Sample locations are presented on Figure 1, attached; sampling intervals for each location are presented for Impoundments 1 and 2 on Tables 1 and 2, respectively. If necessary, multiple borings may be installed in each location to obtain adequate sample volume.

Please note that proposed sampling intervals are based on material types and thickness as currently understood. There may be some variation in thickness of the VR and HC layers in each impoundment; sampling intervals may be adjusted in the field as necessary. Should additional material types be identified during performance of the sampling (such as coal aggregate in Impoundment 1), additional samples will be collected for initial characterization of these materials.

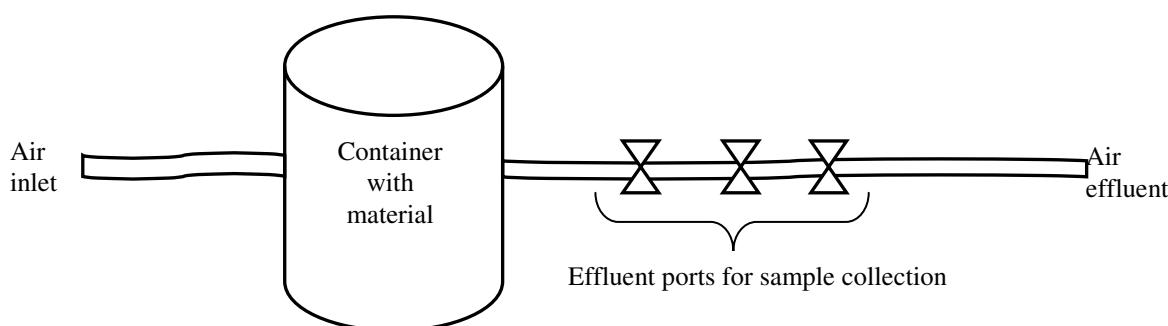
5. Proposed Sampling Methodology

For the collection of samples for DQOs #1 and #2, a vessel (such as a pontoon boat) with a mounted drill will be deployed into the impoundment. Prior to deployment of the vessel, adequate water cap will be added to the surface of the impoundment either by transferring water to the impoundment being sampled from the other impoundment, or by pumping additional water to the impoundment from elsewhere on the site. The vessel will be deployed onto the water cap in the impoundment using a crane, as there is no ramped access from the berms. Once the vessel is deployed, personnel will access the vessel using planks from the berm.

Unconsolidated or moderately consolidated sub-bottom samples can often be collected by vibracoring, while harder bottoms frequently require the use of percussive (hammer) or rotary drilling techniques; all these techniques will be available for use during sampling. To collect samples at prescribed depths, a split spoon or Shelby tube will be pushed into the casing and immediately removed and containerized. The material is then allowed to swell in the spoon or tube for up to 30 minutes to prevent loss during extraction. After removal, the sample spoon or tube will be capped for onshore sample collection. Samples will be collected from discrete intervals and will not be composited. Sample jars will be preserved as applicable and submitted to a New Jersey-certified laboratory for analysis as described in Section 6, below. At Impoundment 1, where the polyethylene liner below the water cap will be punctured to install the borings, bentonite pellets will be applied to the hole to maintain function of the liner.

Prior to initiating field work, coordinates of sampling locations will be identified using AutoDesk® Software. The coordinates for these locations will be provided to the vessel crew to locate the sample locations using a GPS unit. Sample depths will be measured from the surface of the impoundment (beneath the water cap). The depth of each material type layer (VR/HC), interface layer (if one exists), and total impoundment depth will also be recorded at each location.

Following the collection of samples, remaining material will be collected in buckets for testing in support of DQO #3; additional water will also be collected from each impoundment's water cap. To perform the initial air characterization, shaker tests will be performed. Three scenarios will be tested: impoundment material only, impoundment water cap only, and impoundment material with water cap. In each test, a known mass of impoundment material and/or water will be placed into a clean container, modified to allow air sample volumes to be pulled from the headspace of the container:



The container will be mechanically agitated to cause volatilization of material components. During agitation, air will be drawn from the headspace of the vessel into sample containers or onto sample media in accordance with the methods identified in Section 6, below.

To evaluate the buffer capacity of the water caps on the impoundments (DQO #4), water samples will be collected; sample collection will take place prior to the transfer or addition of water for the completion of DQO #1/#2 sampling. Water cap samples will be collected in airtight DOT-approved containers and shipped off-site for titration analysis.

6. Proposed Testing Methods

In order to compile the most complete list of compounds for analysis for inclusion in the characterization program, a technical evaluation was performed. This evaluation included consideration of the following:

- Compounds previously detected in the impoundment materials
- Known chemical and biological degradation byproducts of compounds previously detected in the impoundment materials
- Revisions to analytical methods allowing for the inclusion of additional compounds
- Gas chromatograph/Mass spectrometer (GC/MS) technical capabilities and use of alternative standards for calibration of instrumentation
- Use of non-standard analytical methods

Table 3, attached, presents the known degradation products of compounds previously detected in the impoundments and indicates compounds for which a potential analytical method is identified. In addition to the standard compound lists, additional compounds will be analyzed based on those compounds suspected to be potential degradation products of compounds previously identified in the impoundments or suspected to be present, where a method is available.

For material characterization (DQOs #1 and #2), samples will be analyzed using the following methods:

- TCL VOCs via EPA Method 8260
- TCL SVOCs via EPA Method 8270
- Metals via EPA Method 6020
- Explosives via EPA Method 8330
- PCB Homologs via EPA Method 680
- Bulk Density via ASTM Method D2937
- Chloride via EPA Method 9056
- Total Cyanide via EPA Method 9012
- Ammonia via EPA Method 350.1
- Nitrate and Nitrite via EPA Method 353.2
- pH via EPA Method 9040/9045
- Sulfide via EPA Method 376.1
- Sulfite via EPA Method 377.1
- Total Phenolics via EPA Method 420.2
- Viscosity via ASTM D445/6

Russ Downey
March 10, 2010
Page 6

Table 4, attached, presents the compounds to be analyzed, those detected in the impoundments previously, and those identified as potential degradation compounds. Analysis of the impoundment material will likely require several dilutions by the laboratory due to the anticipated presence of some target compounds at high concentrations; the results of all dilutions will be requested from the laboratory.

For evaluation of potential air emissions (DQO #3), samples will be collected and analyzed using the following methods:

- VOCs via EPA Method TO-15
- Aldehydes via NIOSH Method 2016
- Inorganic Acids via NIOSH Method 7903
- Hydrogen Sulfide via NIOSH Method 6013

Please note that for NIOSH Method 7903, only one sample will be collected for each type of material, due to a longer required sample duration and a larger sample air volume.

As part of DQO #4, water from the cap of each impoundment will be evaluated for compounds currently required for discharge to Somerset Raritan Valley Sewerage Authority (SRVSA), using the following methods:

- VOCs via EPA Method 8260¹
- SVOCs via EPA Method 8270 + SIM¹
- Metals via EPA Method 6020
- Biological Oxygen Demand (BOD) via EPA Method 405.1
- Chemical Oxygen Demand (COD) via EPA Method 410.4
- Total Organic Carbon (TOC) via EPA Method 415.1
- Carbonaceous Biological Oxygen Demand via EPA Method 5210
- Ammonia via EPA Method 350.1
- Total Dissolved Solids (TDS) via EPA Method 160.1
- Total Suspended Solids (TSS) via EPA Method 160.2
- Oil & Grease via EPA Method 1664
- Petroleum Hydrocarbons via EPA Method 418.1
- pH via EPA Method 150.1

Full deliverable laboratory packages will be requested from the laboratory; 10% of the data collected will undergo full validation. Samples and materials shipped off-site for analysis will be appropriately documented for transport through use of chains of custody or bills of lading and will be appropriately labeled and packaged in accordance with the requirements of 49 CFR Parts 171 through 178.

¹ EPA Methods 8260 and 8270 will be used to identify individual compounds which are included as part of the calculation of Total Toxic Organics (TTO).

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Table 1
Impoundment 1 Proposed Sample Depths

Location ID	Impoundment 1								
	Viscous/Rubbery Layer			Interface	Hard/Crumbly Layer				
	0.5' to 1'	1.5' to 2'	2.5' to 3'	3'	3.5' to 4'	4.5' to 5'	5.5' to 6'	6.5' to 7'	7.5' to 8'
Imp1-A	X				X				
Imp1-B	X					X			
Imp1-C		X		X		X			
Imp1-D			X			X			
Imp1-E			X		X				
Imp1-F			X					X	
Imp1-G			X				X		
Imp1-H		X		X					X
Imp1-I		X			X				
Imp1-J		X		X			X		
Imp1-K		X						X	
Imp1-L	X							X	
Imp1-M	X								X
Imp1-N	X			X			X		
Imp1-O			X						X

Additional samples:

Imp1-P Imp1-Q Imp1-R Imp1-S Imp1-T }

In each of these locations, one sample will be collected of coal aggregate, which was deposited into Impoundment 1 to facilitate excavation during the offsite fuel blending program. The depth of the coal aggregate layer is unknown; effort will be taken to take the 5 samples at varying intervals. Samples of the VR and HC layers below the coal aggregate will not be collected; however the depth and thickness of each layer will be logged

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Table 2
Impoundment 2 Proposed Sample Depths

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Table 3
Degradation Products

Degradation Products		
Volatile Organic Compounds		
Benzene	Catechol (1,2-Dihydroxybenzene) Phenol Muconic Acid	Cyanogen Chloride
Ethylbenzene	Acetophenone Hydroxybenzaldehyde Phenacetic Acid	(Not Available)
Toluene	3-Methyl Catechol Benzyl Alcohol Benzaldehyde Benzoic Acid Catechol (1,2-Dihydroxybenzene)	Benzaldehyde Benzyl Alcohol Nitrotoluenes p-Methylbenzoquinone o-Cresol m-Cresol p-Cresol
Xylenes (total)	Benzyl Alcohol 4-Methyl Catechol	Cyanogen Chloride
Semi volatile Organic Compounds		
1,2-Dichlorobenzene	3,4-Dichlorocatechol 2,3-Dichloro-cis-1,2-Dihydroxycyclohexa-3,5-diene 2,3-Dichloro-cis,cis-Muconate 5-Chloromaleylacetic Acid	Chlorinated phenols Nitro Products
1,3-Dichlorobenzene	(Not Available)	Chlorinated phenols Nitro Products
1,4-Dichlorobenzene	(Not Available)	Chlorinated phenols Nitro Products
2,4-Dimethylphenol	(Not Available)	Formic Acid Acetic Acid

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Impoundments 1 and 2 Characterization Program

Table 3
Degradation Products

<i>Degradation Products</i>		
	<i>Biological</i>	<i>Chemical/Physical</i>
2-Chloronaphthalene	8-Chloro-1,2-Dihydro-1,2-Dihydroxynaphthalene 3-Chlorosalicylic Acid	(Not Available)
2-Methylnaphthalene	2-Naphthoic acid	2-Naphthaldehyde
2-Methylphenol	4-Methylcatechol 4-Methylresorcinol Methylhydroquinone Ketobutyric Acid Dihydroxybenzaldehyde Trihydroxytoluene 2-Methyl-4-Chlorophenol	Cyanogen Chloride
3&4-Methylphenol	4-Methyl-2-Chlorophenol Phenol 4-Hydroxybenzaldehyde	(Not Available)
Acenaphthene	1,2-Acenaphthenediol Acenaphthenequinone Hydroxyacenaphthenone 1,2-Acenaphthenedione trans-1,2-Dihydroxyacenaphthene 1-Acenaphthenol 1-Acenaphthenone	Formic Acid Acetic Acid
Benzoic Acid	3-Oxoadipate Enol Lactone 3-Oxoadipate	(Not Available)
Dibenzofuran	(Not Available)	(Not Available)
Fluroanthene	9-Fluorenone 9-Hydroxyfluorene 9-Hydroxy-1-Fluorenecarboxylic Acid 2-Carboxybenzaldehyde	3-Chlorofluoranthene
Fluorene	(Not Available)	2-Chlorofluorene

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Impoundments 1 and 2 Characterization Program

Table 3
Degradation Products

	<i>Degradation Products</i>	
	<i>Biological</i>	<i>Chemical/Physical</i>
Naphthalene	1,4-Naphthoquinone 1-Naphthol cis-1,2-Dihydroxy-1,2-Dihydroronaphthalene 4-Hydroxy-1-Tetralone	Chloronaphthalenes Dibromonaphthalene Bromochloronaphthalene Bromonaphthol
Nitrobenzene	Aniline	Aniline
Phenanthrene	Dihydroxynaphthalene Salicylic acid cis-3,4-Dihydroxy-3,4-Dihydrophenanthracene	Phenanthrene-9,10-Dione 9-Chlorophenanthrene, Phenanthrene-9,10-Oxide 9,10-Dihydrophenanthrenediol
Pyrene	(Not Available)	(Not Available)
Phenol	2-Nitrophenol 4-Nitrophenol	Hydroquinone Catechol Hydroxyhydroquinone Resorcinol Hydroxybenzoquinone Benzoquinone Nitrosophenol 4-Nitrocatechol 2-Nitrophenol 4-Nitrophenol o-Quinone Muconic Acid Maleic Acid Fumaric Acid Oxalic Acid Formic Acid Acetic Acid Cyanogen Chloride

Bold indicates compounds for which analytical methods have been identified

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Table 4
Analytical Parameters

Compound	Cas Number	EPA Analytical Method	1 and 2 detected compounds	1 and 2 potential degradation products
VOCs				
1,1,1,2-Tetrachloroethane	630-20-6	8260		
1,1,1-Trichloroethane	71-55-6	8260		
1,1,2,2-Tetrachloroethane	79-34-5	8260		
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	8260		
1,1,2-Trichloroethane	79-00-5	8260		
1,1-Dichloroethane	75-34-3	8260		
1,1-Dichloroethene	75-35-4	8260		
1,2,3-Trichloropropane	96-18-4	8260		
1,2,3-Trichlorobenzene	87-61-6	8260		
1,2,4-Trichlorobenzene	120-82-1	8260		
1,2-Dibromo-3-chloropropane	96-12-8	8260		
1,2-Dibromoethane	106-93-4	8260		
1,2-Dichlorobenzene	95-50-1	8260	X	
1,2-Dichloroethane	107-06-2	8260		
1,2-Dichloroethene (cis)	156-59-2	8260		
1,2-Dichloroethene (trans)	156-60-5	8260		
1,2-Dichloropropane	78-87-5	8260		
1,3-Dichlorobenzene	541-73-1	8260	X	
1,3-Dichloropropene	542-75-6	8260		
1,3-Dichloropropene	542-75-6	8260		
1,4-Dichlorobenzene	106-46-7	8260	X	
1,4-Dioxane	123-91-1	8260		
1-Chloro-2,3-Epoxypropane	106-89-8	8260		
2-Butanone	78-93-3	8260		
2-Chloro-1,3-butadiene	126-99-8	8260		
2-Hexanone	591-78-6	8260		
2-Nitropropane	79-46-9	8260		X
4-Dimethylaminoazobenzene	60-11-7	8260		
4-Methyl-2-pentanone	108-10-1	8260		
Acetaldehyde	75-07-0	8260		
Acetone	67-64-1	8260		
Acetonitrile	75-05-8	8260		
Acrolein	107-02-8	8260		
Acrylonitrile	107-13-1	8260		
Allyl chloride	107-05-1	8260		
Benzene	71-43-2	8260	X	
Benzyl chloride	100-44-7	8260		
Bis(chloromethyl)ether	542-88-1	8260		
Bromodichloromethane	75-27-4	8260		
Bromoform	75-25-2	8260		
Bromomethane	74-83-9	8260		
Carbon Disulfide	75-15-0	8260	X	
Carbon Tetrachloride	56-23-5	8260		
Chlorobenzene	108-90-7	8260		
Chloroethane	75-00-3	8260		
Chloroform	67-66-3	8260	X	
Chloromethane	74-87-3	8260	X	
Chloroprene	126-99-8	8260		
cis-1,3-Dichloropropylene	10061-01-5	8260		
Cyclohexane	110-82-7	8260		
Dibromochloromethane	124-48-1	8260		
Dichlorodifluoromethane	75-71-8	8260		
Diisopropyl Ether	108-20-3	8260		
Ethyl Acetate	141-78-6	8260		
Ethyl acrylate	140-88-5	8260		
Ethyl ether	60-29-7	8260		
Ethylbenzene	100-41-4	8260	X	
Ethylene dibromide	106-93-4	8260		
Hexachlorobutadiene	87-68-3	8260		
Isopropanol	67-63-0	8260		
Isopropylbenzene	98-82-8	8260		
Methacrylonitrile	126-98-7	8260		

Wyeth Holdings Corporation
Former American Cyanamid Site
Imps 1 and 2 Characterization Program

Table 4
Analytical Parameters

Compound	Cas Number	EPA Analytical Method	1 and 2 detected compounds	1 and 2 potential degradation products
Methyl Acetate	79-20-9	8260		
Methyl methacrylate	80-62-6	8260		
Methyl tert butyl ether	1634-04-4	8260		
Methyl tert-butyl ether	1634-04-4	8260		
Methylcyclohexane	108-87-2	8260		
Methylene Chloride	75-09-2	8260	X	X
Naphthalene	91-20-3	8260	X	
Styrene	100-42-5	8260		
Tert-Butyl Alcohol	75-65-0	8260		
Tetrachloroethylene	127-18-4	8260		
Toluene	108-88-3	8260	X	
Total Xylene	1330-20-7	8260	X	
trans-1,3-Dichloropropene	10061-02-6	8260		
Trichloroethene	79-01-6	8260		
Trichlorofluoromethane	75-69-4	8260		
Vinyl Acetate	108-05-4	8260		
Vinyl Chloride	75-01-4	8260		
SVOCs				
1,2,4,5-Tetrachlorobenzene	95-94-3	8270		X
1,2-Diphenylhydrazine	122-66-7	8270		
1,3-dichloronaphthalene	28699-88-9	8270		X
1,4-Naphthoquinone	130-15-4	8270		X
1-Chloro-2-nitrobenzene (OCNB)	88-73-3	8270		
2,4,5-Trichlorophenol	95-95-4	8270		X
2,4,6-Trichlorophenol	88-06-2	8270		X
2,4-Dichlorophenol	120-83-2	8270		X
2,4-Dimethylphenol	105-67-9	8270	X	X
2,4-Dinitrophenol	51-28-5	8270		X
2,4-Dinitrophenol	51-28-5	8270		X
2,4-Dinitrotoluene	121-14-2	8270		X
2,6-Dinitrotoluene	606-20-2	8270		X
2-Acetylaminofluorene	53-96-3	8270		
2-Chloroacetophenone	532-27-4	8270		
2-Chloroaniline	95-51-2	8270		
2-Chloronaphthalene	91-58-7	8270	X	
2-Chlorophenol	95-57-8	8270		X
2-Methoxyethanol	109-86-4	8270		
2-Methylnaphthalene	91-57-6	8270	X	
2-Methylphenol	95-48-7	8270	X	X
2-Nitroaniline	88-74-4	8270		X
2-Nitrophenol	88-75-5	8270		X
3&4-Methylphenol	N/A	8270	X	X
3,3'-Dichlorobenzidine	91-94-1	8270		
3-Nitroaniline	99-09-2	8270		X
4-Aminobiphenyl	92-67-1	8270		
4-Bromophenyl Phenyl Ether	101-55-3	8270		
4-Chloro-3-methylphenol	59-50-7	8270		X
4-Chloroaniline	106-47-8	8270		
4-Chlorophenyl phenyl ether	7005-72-3	8270		
4-Nitrophenol	100-02-7	8270		X
Acenaphthene	83-32-9	8270		
Acenaphthylene	208-96-8	8270	X	
Acetophenone	98-86-2	8270		X
Aniline	62-53-3	8270		X
Anthracene	120-12-7	8270		
Atrazine	1912-24-9	8270		
Azobenzene	103-33-3	8270		
Benzaldehyde	100-52-7	8270		X
Benzidine	92-87-5	8270		
Benzo(a)anthracene	56-55-3	8270		
Benzo(b)fluoranthene	205-99-2	8270		
Benzo(g,h,i)perylene	191-24-2	8270		
Benzo(k)fluoranthene	207-08-9	8270		

Wyeth Holdings Corporation
Former American Cyanamid Site
Imps 1 and 2 Characterization Program

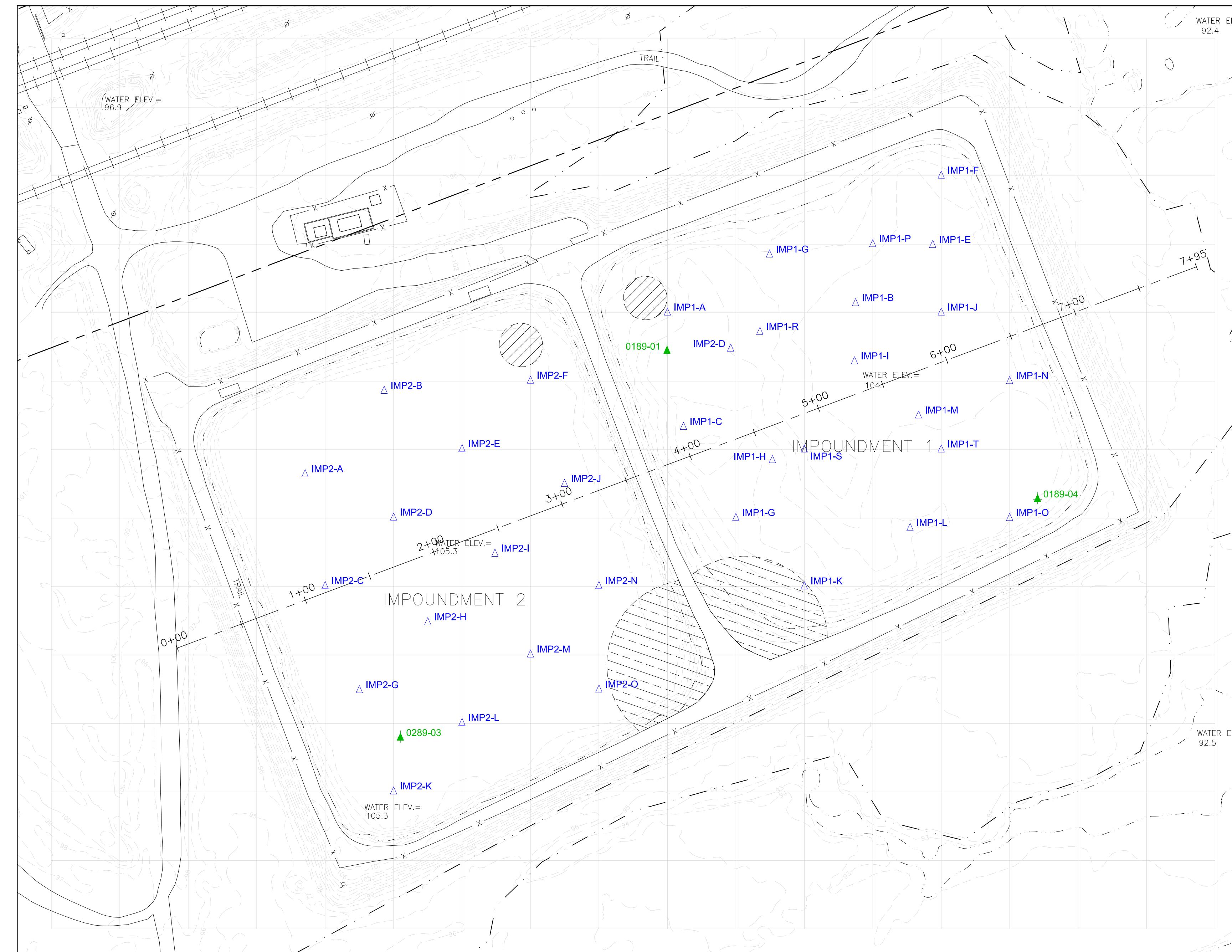
Table 4
Analytical Parameters

Compound	Cas Number	EPA Analytical Method	1 and 2 detected compounds	1 and 2 potential degradation products
Benzo[a]pyrene	50-32-8	8270		
Benzoic Acid	65-85-0	8270	X	X
Benzyl Alcohol	100-51-6	8270		X
Benzyl Butyl Phthalate	85-68-7	8270		
Biphenyl	92-52-4	8270		
Bis (2-Chloroethyl) ether	39638-32-9	8270		
bis(2-Chloroethoxy)methane	111-91-1	8270		
Bis(2-chloroethyl)ether	111-44-4	8270		
bis(2-ethylhexyl)adipate	103-23-1	8270		
bis(2-Ethylhexyl)phthalate	117-81-7	8270		
bis(n-octyl) Phthalate	117-84-0	8270		
bis-Chloroisopropyl ether	108-60-1	8270		
Carbazole	86-74-8	8270		
Catechol	120-80-9	8270		X
Chlorobenzilate	510-15-6	8270		
Chrysene	218-01-9	8270		
Dibenz(a,h)anthracene	53-70-3	8270		
Dibenzofuran	132-64-9	8270	X	
Dibutyl phthalate	84-74-2	8270		
Diethyl Phthalate	84-66-2	8270		
Dimethyl Phthalate	131-11-3	8270		
Dinitro-o-cresol	534-52-1	8270		X
Diphenylamine	122-39-4	8270		
Fluoranthene	206-44-0	8270	X	
Fluorene	86-73-7	8270	X	
Hexachlorobenzene	118-74-1	8270		
Hexachlorocyclohexane	608-73-1	8270		
Hexachlorocyclopentadiene	77-47-4	8270		
Hexachloroethane	67-72-1	8270		
Hydroquinone	123-31-9	8270		X
Indeno(1,2,3-cd)pyrene	193-39-5	8270		
Isophorone	78-59-1	8270		
M-Chloroaniline	108-42-9	8270		
m-Cresol & p-Cresol		8270		
Methyl salicylate	119-36-8	8270		
Nitrobenzene	98-95-3	8270	X	
N-Methyl-N-Nitrososmethanamine	62-75-9	8270		X
N-Nitrosodiethylamine	55-18-5	8270		X
N-Nitrosodi-n-butylamine	924-16-3	8270		X
N-Nitrosodi-n-propylamine	621-64-7	8270		X
N-Nitrosodiphenylamine	86-30-6	8270		X
N-Nitrosodipropylamine	621-64-7	8270		X
N-Nitrosomethyleneethylamine	10595-95-6	8270		X
N-Nitrosomorpholine	59-89-2	8270		X
N-Nitrosopiperidine	100-75-4	8270		X
N-Nitrosopyrrolidine	930-55-2	8270		X
o-Toluidine	95-53-4	8270		
p-Cresol	106-44-5	8270		X
Pentachlorobenzene	608-93-5	8270		
Pentachlorophenol	87-86-5	8270		X
Phenanthrene	85-01-8	8270	X	
Phenol	108-95-2	8270	X	X
P-Nitroaniline	100-01-6	8270		X
Pyrene	129-00-0	8270	X	
Salicylic acid	69-72-7	8270		
Tetrahydrofuran	109-99-9	8270		
Metals				
Total cyanide	57-12-5	6020		
Aluminum	7429-90-5	6020		
Iron	7439-89-6	6020		
Lead	7439-92-1	6020		
Manganese	7439-96-5	6020		
Mercury	7439-97-6	6020		

Wyeth Holdings Corporation
Former American Cyanamid Site
Imps 1 and 2 Characterization Program

Table 4
Analytical Parameters

Compound	Cas Number	EPA Analytical Method	1 and 2 detected compounds	1 and 2 potential degradation products
Nickel	7440-02-0	6020		
Silver	7440-22-4	6020		
Thallium	7440-28-0	6020		
Antimony	7440-36-0	6020		
Arsenic	7440-38-2	6020		
Barium	7440-39-3	6020		
Beryllium	7440-41-7	6020		
Cadmium	7440-43-9	6020		
Chromium	7440-47-3	6020		
Cobalt	7440-48-4	6020		
Copper	7440-50-8	6020		
Vanadium	7440-62-2	6020		
Zinc	7440-66-6	6020		
Selenium	7782-49-2	6020		
Cyanide	57-12-5	6020		
Magnesium	7439-95-4	6020		
Sulfide	18496-25-8	6020		
Pesticides/Herbicides				
Dinoseb	88-85-7	8151		
4,D-Silvex	93-72-1	8151		
2,4-Dichlorophenoxyacetic acid	94-75-7	8151		
2-Chloroethylvinyl Ether	110-75-8	8151		
Explosives				
m-Nitrotoluene	99-08-1	8330		X
Nitrobenzene	98-95-3	8330		
2-Nitrotoluene	88-72-2	8330		
3-Nitrotoluene	99-08-1	8330		
4-Nitrotoluene	99-99-0	8330		
1,3-Dinitrobenzene	99-65-0	8330		
2,6-Dinitrotoluene	606-20-2	8330		
2,4-Dinitrotoluene	121-14-2	8330		
1,3,5-Trinitrotoluene	99-35-4	8330		
2,4,6-Trinitrotoluene	118-96-7	8330		
1,3,5-Trinitro-1,3,5-Triazine	121-82-4	8330		
4-Amino-2,6-Dinitrotoluene	19406-51-0	8330		
2-Amino-4,6-Dinitrotoluene	35572-78-2	8330		
2,4,6-Trinitrophenyl-n-Methylnitamine	479-45-8	8330		
Cyclotetramethylene-Tetranitramine	2691-41-0	8330		
Volatile Fatty Acids				
Acetic Acid	64-19-7	AM21G		X
Propionic Acid	79-09-4	AM21G		
Butyric Acid	107-92-6	AM21G		
Pyruvic Acid	127-17-3	AM21G		
Lactic Acid	598-82-3	AM21G		
PCBs (Homologs)				
Monochlorobiphenyls	27323-18-8	680		
Dichlorobiphenyls	25512-42-9	680		
Trichlorobiphenyls	25323-68-6	680		
Tetrachlorobiphenyls	26914-33-0	680		
Pentachlorobiphenyls	25429-29-2	680		
Hexachlorobiphenyls	26601-64-9	680		
Heptachlorobiphenyls	28655-71-2	680		
Octachlorobiphenyls	31472-83-0	680		
Nonachlorobiphenyls	53742-07-7	680		
Decachlorobiphenyls	2051-24-3	680		
Other Analyses				
pH	N/A	9040/9045		
Ammonia	7664-41-7	350.1		
Nitrate and Nitrite	N/A	353.2		
Sulfite	N/A	377.1		
Phenolics	1336-35-2	420.4		X
PCB Homologs		680		
Chloride	16887-00-6	9056		



SITE PLAN

SCALE: 1"=50'

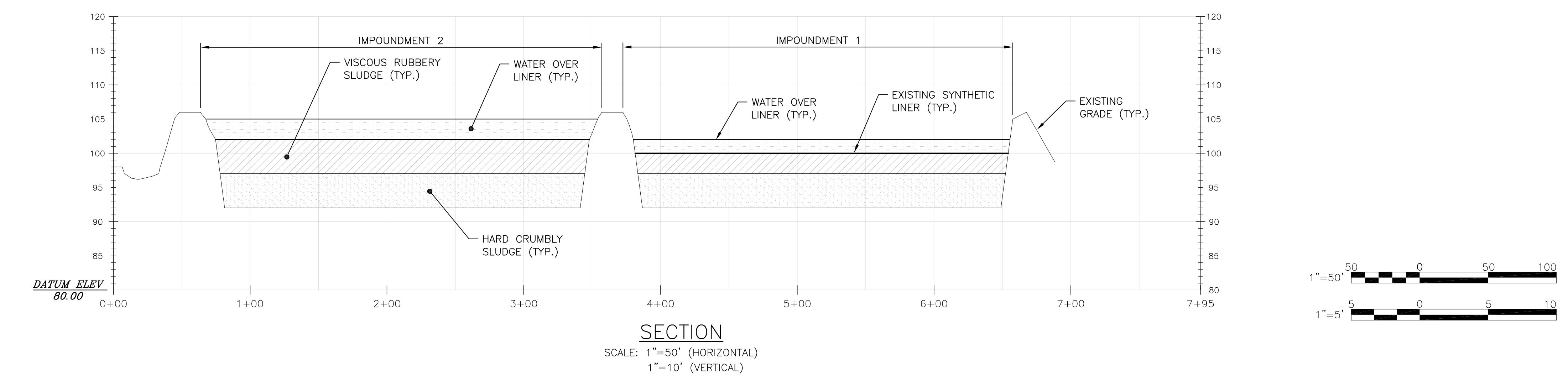
- NOTE:**
- WHERE AVAILABLE, HISTORICAL SAMPLE LOCATIONS ARE PRESENTED. HOWEVER, MOST HISTORICAL SAMPLES WERE COLLECTED FROM EXCAVATED MATERIAL AND SPECIFIC LOCATION INFORMATION IS NOT AVAILABLE. APPROXIMATE LOCATION INFORMATION IS PRESENTED.

WYETH HOLDINGS CORPORATION

BOUND BROOK IMPOUNDS 1 & 2 CHARACTERIZATION PROGRAM

PROPOSED SAMPLE LOCATIONS

FIGURE 1

FILE NO. 5772.45539
FEBRUARY 2010

*Appendix B – Photo Log and
Video CD*



OBRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 1	Date: 04/19/10		
Description: Construction of Pontoon			

Photo No. 2	Date: 04/19/10	
Description: Construction of Pontoon Deck		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name:		Site Location:	Project No.
Wyeth Holdings Corporation		Former American Cyanamid Site, Bound Brook, NJ	
Photo No.	Date:		
3	04/19/10		
Description: Impoundment 2 Mobilization			
Photo No. 4		Date: 04/20/10	
Description: Impoundment 2 Collecting samples			



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 5	Date: 04/20/10		
Description: Impoundment 2 Viscous Rubbery material sample collection			

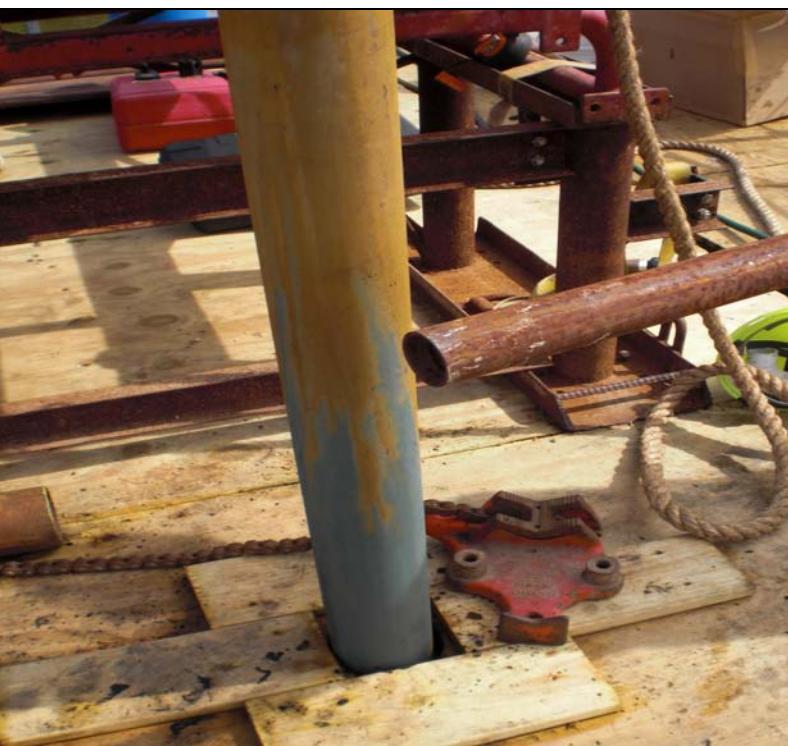
Photo No. 6	Date: 04/21/10	
Description: Impoundment 2 Bubbles – suspected lime		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 7	Date: 04/21/10		
Description: Impoundment 2 Trail of bubbles – suspected lime			

Photo No. 8	Date: 04/21/10	
Description: Impoundment 2 Oxidation of shell		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation	Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 9	Date: 04/21/10	

Photo No. 10	Date: 04/21/10	
Description: Impoundment 2 Drilling		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 11	Date: 04/22/10		
Description: Impoundment 2 Core collection			

Photo No. 12	Date: 04/23/10	
Description: Impoundment 2 Viscous Rubbery material		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 13	Date: 04/26/10		
Description: Impoundment 2 Pontoon deck during program			

Photo No. 14	Date: 04/27/10	
Description: Impoundment 2 Viscous Rubbery material		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 15	Date: 04/29/10	Description: Impoundment 2 Drilling	
			

Photo No. 16	Date: 04/29/10	Description: Transfer from Impoundment 2 to Impoundment 1	
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O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 17	Date: 04/30/10		
Description: Impoundment 1 Viscous Rubbery recovery			

Photo No. 18	Date: 04/30/10	
Description: Impoundment 1 Hard and Crumbly recovery		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 19	Date: 04/30/10		
Description: Impoundment 1 Clay and Coal Aggregate recovery			

Photo No. 20	Date: 04/30/10	
Description: Impoundment 1 Hard and Crumbly and Coal Aggregate recovery		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 21	Date: 04/30/10		
Description: Impoundment 1 Viscous Rubbery recovery			

Photo No. 22	Date: 04/30/10	
Description: Impoundment 1 Viscous Rubbery material		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 23	Date: 05/04/10		
Description: Impoundment 1 Yellow, oily liquid			

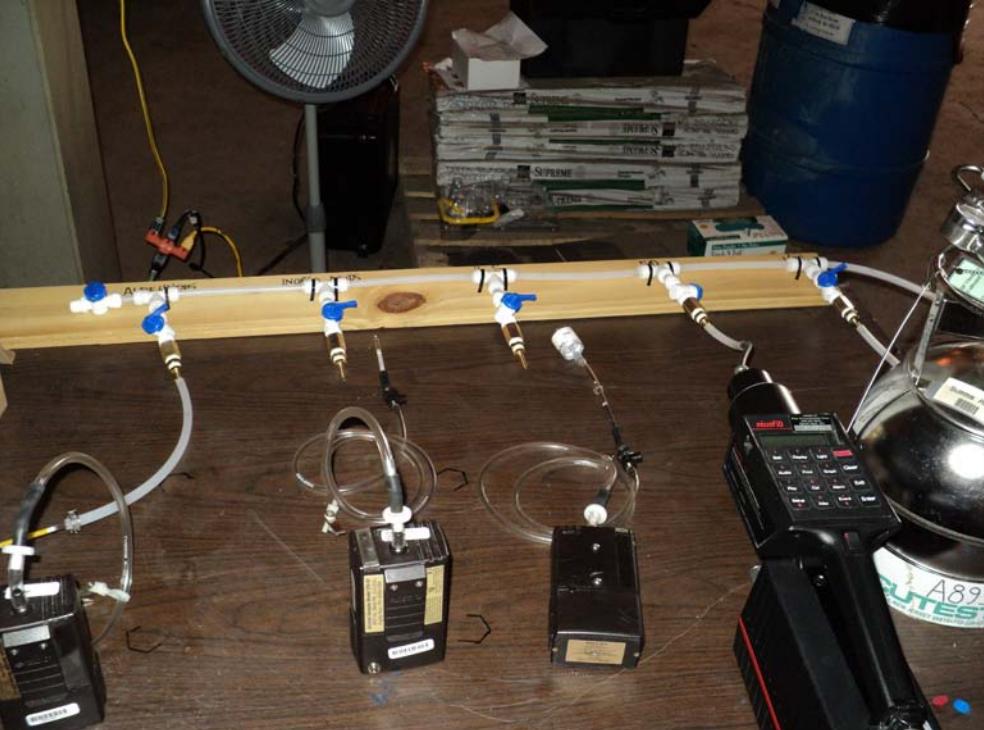
Photo No. 24	Date: 05/04/10	
Description: Impoundment 1 Yellow, oily liquid samples		



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 25	Date: 05/10/10	Description: Impoundment 1 Demobilization	

Photo No. 26	Date: 05/03/10	Description: Air Testing Array	
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O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 27	Date: 05/07/10	 A photograph showing an air sampling setup. It includes a stainless steel canister labeled 'AB43 TEST' connected to a pump unit. Various hoses and equipment are visible on a wooden bench and the floor.	
Description: Air Sampling Setup			

Photo No. 28	Date: 04/20/10	 A photograph of three workers in yellow protective suits and respirators standing on a platform in a body of water. They appear to be performing a core collection operation. A red safety net is visible in the foreground.	
Description: Impoundment 2 Video of Impoundment 2 Core Collection *Provided on attached CD			Imp 2 -Core Collection 042010 .AVI

*Appendix C – 3D Figures
Animation*



O'BRIEN & GERE

PHOTOGRAPHIC LOG

Client Name: Wyeth Holdings Corporation		Site Location: Former American Cyanamid Site, Bound Brook, NJ	Project No. 4529/45863
Photo No. 29	Date: 04/30/10	 Imp 1 -VR 043010.AVI	
Description: Impoundment 1 Video of Viscous Rubbery material *Provided on attached CD*			

Photo No. 30	Date:	 Air Testing 050710.AVI	
Description: Impoundment 1 Video of Air Testing *Provided on attached CD*			